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## HI FI CHOICE

Future Publishing Ltd, 99 Baker Street, London W1M 1FB

#### ISSUE 200 • MARCH 2000 EDITORIAL

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Hi-Fi Choice is the UK hi-fi magazine representative of the European Imaging & Sound Association (EISA). Every year EISA honours the finest hi-fi and home cinema products throughout Europe.

#### **EDITOR'S NOTEBOOK**

Jason Kennedy kicks of the discreet celebrations for Hi-Fi Choice's 200th issue & 25 years of great kit.



ur first issue at Future Publishing has been a pretty mad state of affairs. You really can't beat moving offices, being inducted and trying to figure out how things work all over again for disrupting the smooth flow of your monthly schedule.

Nevertheless, the magazine looks remarkably good and is, as usual, choc full of rockin' new kit. I finally got round to reviewing the eminently capable Nautilus 804 speaker, and Paul Messenger managed to get to grips with Naim's latest boogie box the NBL, albeit absorbing three precious pages in the process, while Paul Miller has found out what makes Sharp's new 1-bit digital amp tick.

In the real world, Alvin has done sterling work sorting the men from the boys in a group of cooking new CD players. With a price range from £120 to £900, there's something for just about everyone. Richard Black, meanwhile, has had his hands – not to mention his living room – full, with not only a huge group of interconnects but half a dozen pre/power amp combos to boot. He's unearthed gems in both bunches, some from unexpected sources.

#### **BIRTHDAY BOYS**

I spent far too long working on our 200th issue spread. The idea of a list of great products from the past 25 years seemed like a good idea back at the start of the schedule, but that list must have taken more man hours to put together than any other page in print! I went through our back issues, and got Paul Messenger to dig out his early copies, but neither of us has issue 1! Still, we found some great kit - and had we not lost our black and white picture files back in the dark days of the Bolsover Street basement, we could have shown you some. As it is, the names will tell the story for those of you who were into the game back in the late '70s and early '80s, classic years that saw the introduction of some great products, some of which are still made today.

I started on the mag in late 1987, when the A5 books were expanded into A4 magazines with a monthly frequency, features and listings. It all seemed a lot easier then, but that was probably because someone else was doing all the work!

#### **DOMESTIC HARMONY**

On the home front, I've been adjusting to the disappearance of a two fabulous components. The Wadia 860x CD player (as seen in the February issue) was reluctantly given up, and dynamics from CDs along with it. However, now that I've got used to the Eikos once more the loss is less painful, and I can hear its qualities more clearly. It's funny how you have to live with something else

for some time for the pros and cons of what you're 'used to' to become more apparent.

The other temporary loss is of the Groove, Tom Evans' expensive but apparently all-revealing phono stage. I've had to give it up for Richard Black to assess along with five other such units in next month's group test both of affordable and excessive vinyl preamplifiers. It's almost as nerve-wracking an experience for me as it is for manufacturers – what if he doesn't like it? It wouldn't be the first time.

My temporary replacement for the Groove is its predecessor, the Lithosupgraded Michell Iso HR – a great unit in its time, but one which sounds rather weak in comparison. Still, it's only a few weeks and the contrast should be almost worth the pain of displacement. And it's the music that counts, so carry on listening.

Munidy

#### **EDITOR'S CHOICE**



#### **ARCAM FMJ CD23**

We got the first of Arcam's saucy FMJ range in this month, and it's turned out to be a cracker. Based on the impressive Alpha 9, the FMJ CD23 takes that machine's innards, tweaks them up and encloses them in a more solid chassis. The result impressed Tim Bowern so much that to not 'EC' it would have been churlish.



#### NAIM NBL

The Naim NBL looks like a very serious newcomer to the upper echelons of highend speakers. It manages to pack Naim's ideas about box and driver decoupling into an elegant package that's capable of producing some special sounds and, as Paul is keen to point out, it'll keep your parties thumping till the early hours as well.



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Paul remembers Julian Vereker MBE (1945-2000), the founder of Naim Audio.

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Phil delves into his record box once again and finds some more rare gems on vinyl and CD.

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# NEWS & VIEWS

And now let's go straight over to Tim Bowern & Lee Dunkley in our hi-fidelity newsroom.

#### **NEWS IN BRIEF**



MUSICAL FIDELITY has replaced its X-LP phono stage with a new version the X-LPS (above). The changes are all internal, including a custom-made IC. The X-CANS headphone amp has also been upgraded to the X-CAN<sup>12</sup> and promises equally significant improvements. Both products cost £149. MFwatchers should check next month's issue for a review of the XL-Pi monoblock phono stage @ (020) 8900 2866

TOWNSHEND AUDIO is set to launch a modular version of its Seismic Sink isolation system. Users will be able to build a complete Seismic rack to suit their own hi-fi or A/V system, using air to isolate components from groundborn vibrations

**2** (020) 8979 2155

NAD has announced substantial price reductions for its SilverLine Series. All components are now available with up to 25 per cent off the original prices. For example, the S500 CD player, Recommended in HFC 195. now retails for £1,000 with the \$100/\$200 pre/power amp combo (see page 64) now at £2,000. **2** (01296) 482017

**SOUTH COAST SPEAKERS (SCS)** has become the latest company to launch an add-on super tweeter. It uses a Visaton TL 16H aluminium alloy horn tweeter with a switched crossover and attenuation box, and is claimed to integrate easily with any full-range horn speaker system. Price is £350 for a pair

**☎** (023) 8070 3221

#### GOLDRING has reintroduced the Milty Zerostat anti-static gun. Popular back in the '70s, it is claimed to effectively neutralise static on vinvl and CD via an ionised air discharge. It costs £30. **2** (01284) 701101

MISSION has parted from its parent company, Centralforce Limited, a wholly owned subsidiary of NXT. The loudspeaker brand has been subject to a management buy-out, fronted by three directors from its finance, sales and operations departments. Mission was founded in the 1970s by Farad Azima, currently Chairman and CEO

## Cyrus takes five

fier, representing the entry point for its new line-up. The Cyrus 5, priced at £500, is based on the Cyrus 7 (£700), which was well-received when launched last year. The trade-off for the £200 saving comes in the form of a reduced power output of 40 Watts per channel and the omission of a PSX-R port - used for upgrading with an external power supply. Essential circuit topology remains the same, however, and Cyrus claims the result is powerful, affordable and supremely musical.

In line with its manufacturer's modular philosophy, the Cyrus 5 can expand to suit its user's aspirations via a number of routes. You can upgrade to full Cyrus 7 specification for £259, add the matching MR3 unit to make your system multi-room, or convert to multi-channel surround sound with the aid of the forthcoming AV 5 processor (see next month's Choice for details).

The amp's digital control supplies a number of sophisticated facilities: for example, an 'intelligent headphone output' smoothly mutes the speakers while fading up your headphones. Its die-cast enclosure is neat,



Cyrus 5 - the entry point for a new amp line-up.

compact and hand-finished to the usual Cyrus standard, and its front panel is intentionally clean and uncluttered.

This is the third product to arrive since Cyrus restructured last year, distancing itself from other activities within its parent NXT group. With Mission's recent sale by NXT paving the way (see separate news story), a Cyrus buy-out would appear to be a logical progression at some point in the future. In the meantime, look out for reviews of the Cyrus 5, AV 5 and the brand's forthcoming speaker in the next few issues of HFC. Cyrus 🕿 (01480) 451777

## **AR's New Status**



Acoustic Research is continuing its relaunch into the UK market after an

eight-year

absence. The Status S40 and S50 are the latest to join the ranks, hot on the heels of the S10 (tested last month) and S20.

Both models are threeway floorstanders, priced at £300 and £400 respectively. The S40 stands almost a metre tall and sports a 25mm silk dome tweeter and twin 16.5cm main drivers with cellulose cones – one for bass, the other for midrange. The S50 incorporates an extra bass driver into its slightly taller frame.

Cabinets are fashioned from chipboard and finished in black or cherry, with black gloss MDF front baffles. Both are magnetically shielded to allow placement close to a TV, and they're available now. Recoton @ (0161) 702 5000



AR Status S50.

## Rotel's DVD debut



Rotel's first DVD-Video player has hit the streets. The RDV-985 is priced at £600, and the manufacturer claims that sonic perfor-

mance was a priority in its design. To that end, sensitive audio circuitry has been isolated to minimise interference; the power supply is situated on its own circuit board, high current voltage regulators supply power to individual circuit stages and three critical blocks - digital processing, analogue video and audio - are contained in physically separate areas.

The player's digital audio specification includes onebit DACs with 24-bit/96kHz resolution, and the analogue output stage is apparently made to Rotel's usual high standard. However, Dolby Digital (DD) processing is not included, as is often the case with the bestsounding DVD-Video players – a separate processor is required to accept a DD or dts data stream from the optical digital output.

The launch follows hot on the heels of Rotel's new multi-channel processors and power amps, such as the RSP-985/RB-985 combo reviewed in HFC 198. An increasing number of specialist hi-fi companies are now entering this market with a 'music first' policy. Expect further announcements over the coming months. Gamepath 2 (01908) 317707

## **Recordable DVD here at last**

domestic DVD recorder is now on

sale in Japan. Pioneer's DVR-1000 hit the shelves last December, priced at ¥250,000 (£1,439); a US launch is expected this autumn, with Europe pencilled in for the end of the year.

Pioneer has produced a re-recordable DVD disc, useable a thousand times over and priced at ¥3,000 (£17). TDK has also announced its first disc for the format.

The DVD recorder is primarily intended as a replacement for the VCR, enabling consumers to record TV programmes and digital camcorder footage onto DVD. You can also play back pre-recorded DVD-Video discs; the DVR-1000 won't play CDs, but Pioneer promises the machines that hit the UK will have that ability too.

The recorders use DVD-RW discs. Each has a 4.7Gb capacity and you can squeeze on up to two hours at maximum quality or six hours at minimum, with variable levels in between. Maximum setting is said to give a performance similar to that of a pre-recorded DVD-V.

DVD-RW employs the DVD Video Recording Format standard, which differs from that of DVD-V. The specification doesn't include the ability to add multi-lingual subtitles, for example, but adds disc navigation and editing facilities similar to those of MiniDisc. It's highly flexible - you can duplicate scenes, alter their position, even make the recorder recognise a disc – your *EastEnders* disc, say – and set the timer accordingly. This means discs using the DVD Video Recording Format won't play on current DVD-V players (although compatible players will soon emerge at higher prices). Players launched in Europe will offer a choice: use DVD Video Recording mode with its extra editing facilities, or record in DVD-V mode – fewer gizmos, but backwards-compatible.

A further complication is DVD-RAM, a recordable alternative to DVD-RW, which encases the disc in a plastic caddy and is favoured by a few manufacturers. But Pioneer sees this as strictly for computer applications, and widespread use outside that sphere seems unlikely.

The arrival of DVD-RW goes a long way to clarify what we'll be watching and listening to in years to come. It is

Pioneer DVR-1000: the world's first domestic DVD recorder.

seen as the replacement for VHS and looks set to be the mass-market home entertainment format of the future, alongside digital distribution via the Internet. For many, it will be the only player/recorder needed in the home. For those who demand the highest quality sound for music, 'universal' players will cater for the new and forthcoming SACD/DVD-Audio formats (in addition to DVD-V and CD), while standard DVD-V players look likely to continue at entry-level for movie and CD playback only. It remains to be seen whether 'universal' recorders will eventually emerge, supporting SACD, DVD-A and DVD-RW for recording purposes.

Since launching the DVR-1000 in Japan, Pioneer claims to have sold more than 10,000 units and its share value has increased by 50 per cent. Now it is the first to answer a question on people's lips since DVD was launched: "When will you be able to record?" Pioneer 2 (01753) 789789

## **Chord's Cable frenzy**



The Chord Company has unleashed five new hi-fi cables, starting with new versions of its Codac and Prodac digital interconnects. The

Codac Silver Plus (£42/1m pair) upgrades the original's conductor to silver-plated, oxygen-free copper, switches to gas foamed polyethylene for the internal dielectric and adds silver plating to the external braid. Meanwhile, the Prodac Silver Plus (£65) sticks to the same conductor and dielectric as the standard version but uses an additional silver-plated wire and foil screen.

The Chord Company has also released bi-wire versions of its Rumour and Odyssey cables, costing £20/m and £34/m respectively. Both feature two twisted conductor pairings housed in a white silicon jacket; their spec is otherwise unchanged. This repre-

**Chord Company Codac** 

Silver Plus.

sents something of a direction change - the company's traditional stance hasn't favoured bi-wiring.

Finally, the Anthem is a high-end analogue interconnect featuring a woven tri-conductor format and 'floating screen' - the external shield is connected at one end only. It costs £275 terminated with RCA plugs, with silverplated shield and signal pin. It's also out in balanced XLR form (£300) and din-to-din (£225) The Chord Co. 2 (01722) 331674



of NXT. His decision to concentrate time and resources on NXT 'flat speaker' technology, with its huge growth potential and numerous business applications, has led to an amicable parting of ways, allowing Mission's new owners to focus solely on the brand's development.



**SOUNDSTYLE** has expanded its Radius range of modular equipment supports, with the addition of extra-height uprights to house larger components. Prices start from £250. **2** (01284) 701101

LENBROOK UK, distributor of NAD, Tact and Dali, has revealed plans to introduce Canadian loudspeaker brand PSB to the UK. The initial lineup will include a range of four active subwoofers priced between £200 and £650. At the same time, the company's CustomSound in-wall speaker range will be unveiled. **2** (01296) 482017



**UKD** is set to distribute Dutch electrostatic loudspeaker brand Final in the UK. The Final 0.3 (pictured) is the first model to hit these shores - the smallest hybrid electrostatic in the range. It costs £1,495 and comes finished in satin silver, beech or cherry. **2** (01753) 652669

POLICE have raided the home of the Norwegian hacker believed to be responsible for exposing DVD's encryption system, so delaying the launch of DVD-A. The self-proclaimed Master of Reverse Engineering is just 16, and is being investigated by Norway's Department of Economic Crime for cracking regional codes.

**TITAN** has introduced a speaker called the Orbital, priced at £300. Its unusual cylindrical design features a 12.5cm mid/bass driver and a 12mm softdome tweeter, from which its maker claims 360 degree sound dispersion. A matching sub will be available soon. March 2000 HI-FI CHOICE 7

## NAD puts music first



NAD has announced details of its first foray into DVD, and true to form its design puts musicality first. The company claims to have

used audiophile components throughout, culled from the firm's respected range of amplifiers and CD players.

The T550 costs £500 and comes with Dolby Digital decoding onboard. It is also dts-compatible, with audio DAC equipped to 24-bit/96kHz standard and 20-bit video DAC. Coaxial and optical digital outputs are supplied around the back. Lenbrook UK 2 (01296) 482017



## CES 2000 SHOW REPORT

#### Las Vegas isn't all dreary old casinos and shows, you know. Every January it caters to legions of gadget nutballs, too...

he world's largest and most important consumer electronics trade showcase, CES 2000, took place in the crisp January air of Las Vegas, and according to the official statistics notched up record attendance figures. On the ground, however, it didn't seem quite that way. By common consent, specialist audio had thinned out a little since last year's gettogether, and much of the action centred around home cinema, and the various flavours of DVD in particular. There was also a lot of interest in MP3, Memory Stick and other solid state devices for downloading music from the Internet, but it is far from clear that this interest will translate into a true mass market.

This years bash was a sometimes contradictory mishmash of trends, with added confusion because the show took place at a difficult time for the industry, with DVD-Audio on hold following the hacking of its core copy-protection mechanism, although prototype DVD-A players were shown and demonstrated by Denon, Rotel, Pioneer and others. DVD in its various forms was nevertheless very much the focus of attention, with rival versions of the recordable version (DVD-RW, DVD+RW, DVD-RAM etc) generating more heat than light from their various protagonists — although some (Panasonic for example) were promoting the improbable idea of a hard disc personal video player.

Back with DVD-Video, Pioneer had a 300 disc – sorry, 301 disc DVD/CD changer, the US\$1,100 (£683) DV-F727, with a slightly higher spec Elite version (not officially available in the UK) also on show. Pioneer describes these models as 'media servers', a phrase reminiscent to one used by Linn about a much more sophisticated device, the Kivor, which is a multimedia music storage

media music storage device that integrates into Linn's multi-room systems. Meanwhile, the specialist audio industry is just beginning to produce its own DVD-Video players rather than rebadged OEM models. Arcam, for example, chose CES to launch its first DVD-V player in an extension to the FMJ range, and as a precursor to the DVD-A player it will certainly make in due course.

The US has never taken to MiniDisc (MD) in a big way, so the field has been left open to CD-R/RW, which are enjoying strong sales growth in the US, just as in Europe. New models included the first from Denon, a name that has resolutely backed MD so far. Its CDR-1000 is the

Expect to see more of Quad's ESL988 speakers (right) and Tannoy's Super Tweeters (above right).





first recorder to include CD Text, which is editable when recording. But Denon had a number of new and interesting introductions which will find their way to the UK in the near future, including the first AV receiver with THX-Surround EX. Yamaha had a similar, proprietary solution to the same problem in its new flagship RX-V1 (US\$3,199), but there was some feeling at the show that both provide solutions to problems that have yet to be identified.

There were some important introductions from British manufacturers. Meridian was prominent with an elaborately constructed display showcasing a number of new and recently introduced products, including a new flagship 24-bit, dual box, 8-driver fully active loudspeaker, the DSP8000 (US\$4,500/pair) designed to meet DVD-A requirements.

Many companies were addressing the same issue in different ways, including Tannoy,

will be built onto some models, and which will also made available to add to existing speaker systems, with

Super Tweeter

whose new



Denon's CDR-1000 (top) scored a first, while Meridian's 568 processor made an impression (above). DVD-A (below) and MP3 technologies (left) were the big news.



claimed improvements in sound quality even when used with conventional CD sources.

It was also a good show for Wharfedale and Quad, both of which have been quiet to the point of invisibility of late, unless you happened to be a Tesco customer who picked up one of their fully code-programmable, Matrixcompatible DVD-V players. At CES we learned of more cute gadgets on the way, including a stereo speaker for personal stereos, based on proprietary flat panel technology (not NXT, they say) and built into what looks like a double CD iewel box – oh, and an ultra-cheap CD personal to drive it. Of more interest to the audiophile was another, smaller Loudpanel to decorate and hang from the wall, along with an in-wall version, and a range of very credible looking and promising sounding wood-veneered loudspeakers under the Pacific range name, designed to pitch the brand into an area of the market from which Wharfedale has been absent for too long.

Quad said that it's finally shipping 99-series electronics and the ESL988 loudspeakers, if only in small numbers so far, with the larger ESL989 due to follow shortly. Quad also showed early samples of its very civilised looking 99 AV processor (Dolby Digital and dts) that should hit the shelves this spring.

Significant loudspeaker introductions included the first active satellite speaker from Miller & Kreisel, the S-150P THX (\$1,699). M&K also joined Boston, Polk and others with their first miniature satellite, the LCR-45 (\$199 each). French specialist JM Labs was a prominent exhibitor with a range of new models, including a very desirable looking compact addition to the flagship Utopia series – the Micro Utopia will cost £3,000 when launched in the UK this April.

Meanwhile, recent startup Indigo showed an expanded Home & Studio range, including its first floorstander, the Model 4, priced at £750 in the UK.



## PAUL MESSENGER

Julian Vereker MBE (7 May 1945 - 14 January 2000)

nce again, it's my sad duty to report the death of a leading figure in British hi-fi, and put together some sort of tribute to a life which was much, much more than ordinary. Julian Vereker was the larger-than-life main man at Naim Audio, and therefore the moving force behind one of Britain's most successful specialist hi-fi companies. He was also a good personal friend over many years, and someone whom I respected enormously, not only for his success

of his complex life and personality.

Julian did lots of different things throughout his life, and actually helped finance the early beginnings of what became Naim with the prize money earned from winning a lot of saloon car races in a cunningly tuned mini. There are clear conceptual parallels between his radical

in the hi-fi world, but for the many other facets

approach to tuning a racing engine (he once described it as

"a pulsed jet") and his equally radical approach to power amplifier design ("it's all about current"). As an engineer, he would see the big picture with great clarity, then worry away at the fine detail until he could effect implementation. The thing was, his picture was often different from and altogether more comprehensive than the perception others had of the same problem.

The story behind Naim amps illustrates this very well. In the early '70s, Julian liked recording musician friends' performances, but was frustrated by how poor they sounded compared with the live experience. Off tape it was

difficult to tell which guitar someone was playing, never mind how well it was being played. He started checking out different equipment, and went out and bought the pukka hi-fi amp of the day. When he connected that up, he found it less revealing than his own home-made affair.

That set him down the road which would lead, around 1974, to the NAP160 and 250

Julian Vereker (top), with some of his products: Naim's NAP110 power amplifier (middle); the CDS (above); and the NAT01 tuner with NAPST power supply (below).



power amps and the NAC12 preamp which, with hindsight, were clearly the most radical and influential designs of the era. Several hundred NAP250s are still sold annually, and although some of the components and casework have evolved, the basic circuitry and concept remains the same. The NAC12 preamp was even more controversial: it was the first preamp of the modern era to

omit tone controls on sound quality grounds, and also to use external power supplies.

But what really set Naim apart was the then heretical claim that its amps sounded better — at a time when the establishment was denying that amplifier sound quality differences existed. Nowadays no one seriously disputes that superior sound quality is the key goal for any amp designer, and no preamp with serious audiophile pretentions would dream of fitting tone

controls. Naim has meanwhile grown into one of the strongest players on the UK

hi-fi scene, and is a fitting memorial to the lead Julian took a quarter of a century ago.

From an iconoclastic outsider to a pillar of the hi-fi establishment, Julian took an active role in promoting the interests of British hi-fi. He

chaired the FBA and BFA industry bodies, and received an MBE in 1995 for export achievement. That said, he'd never have become part of The Establishment, and always retained something of the rebel in his attitudes.

Although Naim was perhaps his greatest achievement, it was by no means an obsession. A man of enormous energy who seemed to get

by on very little sleep, he found time to pursue a wealth of other interests from boats to bicycles, successfully 'multi-tasking' across a num-

ber of disparate fields.

He was committed to
manufacturing as a creed: he
liked making things, and making them well. He set high
standards for his own products,
and expected the same as a consumer. Always competitive, he could be
arrogant and even intimidating, but

remained at heart a very English gentlemen: idiosyncratic, yet with great personal charm and magnetism, and always kind to a friend in need.

There are plenty in the hi-fi world who'll happily diss the sound of Naim equipment, just as Julian rarely had a good word for his competitors' products. But every one of his commercial rivals has expressed deep respect for the man, and genuine sadness for the loss of one of UK hi-fi's greatest contributors in modern times.

#### **NAIM - A BRIEF HISTORY**



- 1967 Julian Vereker retires from mini racing to concentrate on his interests in film-making and other areas of mechanics.
- 1969 Naim commences business as Naim Audio Visual. The first product is a sound-to-light unit capable of switching 30kW of lighting on and off in time to music. It is hired out to other companies for use in film production.
- 1971 Vereker indulges his passion for music by conducting recording sessions at home with his friends. Disappointed with the quality of sound he can achieve, he sets about building the first Naim power amplifier, making and selling them on an *ad hoc* basis to friends, acquaintances and a few studios.
- 1973 Vereker wins a contract to supply a power amp/speaker combo to Capital Radio, the independent London station just starting up at the time. Naim Audio Ltd is incorporated in July.
- 1974 Naim's growth is rapid, and the company relocates from the basement of a house in Salisbury to 16th century shop in the middle of the city. Vereker meets Ivor Tiefenbrun, founder of Linn, and the pair set off around the world on promotional tours. The classic hi-fi combination of Linn turntables with Naim amplifiers is born.
- 1980 Naim outgrows its base and moves to an 11,000 sq ft factory in Southampton Road, Salisbury.
- 1985 The company wins the Queen's Award for Export Achievement, with regular exports to more than 28 countries. Its range and reputation have soared in size and scope, and the factory is extended to 20,000 sq ft.
- 1986 Naim Audio North America Inc. is opened in Chicago, charged with distributing Naim products in the U.S.

#### ■ 1994 onwards ~

A substantial expansion programme enlarges research and development, factory and administration facilities to 34,000 sq ft, with a further 6,000 sq ft of manufacturing space added in 1995.

Sophisticated computeraided design technologies are implemented and the



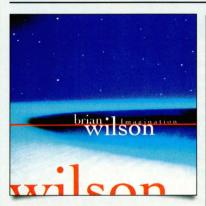
range continues to grow. New Naim CD players, tuners, speakers and, of course, amplifiers create real excitement whenever they arrive; such is the stature of Naim Audio today.

## NEWS & VIEWS

## PREVIOUSLY UNHEARD

Phil Strongman digs out rare and classic tracks appearing on CD or virgin vinyl for the first time. Turn on, tune in, bliss out....





#### **BRIAN WILSON** Imagination

The stay-at-home Beach Boy conjured up the Sixties soundtrack of an entire generation – then blew it. But he bounced back in 1998 with *Imagination*, an album he wrote, arranged and produced himself – with a little help from Joe Thomas and Carole Bayer Sager.

And pretty wonderful it is too, with just the right amount of production to facilitate the man's feelgood tunes and trademark harmonies. Contains a new version of Let Him Run Wild.

Giant CD

Music OOOOO Sonic OOOOO

#### **NEW AGE RADIO**

#### **Sound Ideas For The 21st Century**

Theremins, tablas and other exotica get put to good use on producer Dave Goodman's journey across ambient soundscapes complete with dub echoes and Buddhist prayers. A spaced-out blend of *Sgt. Pepper, A Clockwork Orange* and *The Singing Ringing Tree*, with all the magic and mood that that implies. This has some analog synth work of great depth from Sam Hermitage, while DJ-mixers will like its copyright-free status.

Mandala CD

Music OCOOO Sonic OCOOO

#### SIMON AND GARFUNKEL

#### Tales From New York: Very Best of...

This epic 40-track set has *Bridge Over Troubled Water*, *I Am A Rock*, *The Boxer* and the 1965 take of *Sound of Silence* as well as the duo's last, poignant single, *My Little Town*. As with the boys' first solo efforts, all of these are quality songs recorded with real flair and dedication. Columbia dble CD

Music OCOCO Sonic OCOCO

#### **RUPIE EDWARDS ALL STARS**

#### Pure Gold / 7" Set

Pure Gold is an instrumental LP with Ansell 'Double Barrel' Collins, Skatalite Tommy McCook and Bob Marley's keyboard-player Tyrone Dowie, while the singles include tracks by The Heptones, U-Roy Junior and Johnny 'Civilization' Clarke. These gems all bear the tuneful touches top reggae recordist Edwards always spun in. Success vinyl

Music 🗘 🗘 🗘 🗘 Sonic 🗘 🗘 🗘 🗘

#### **FRANK SINATRA Reprise Years**

Ol' Blue Eyes still sounds best on vinyl: the throaty tones that suddenly soar suit the medium's 'benign distortion' and the Reprise years were the man's Indian summer – New York, New York, Didn't We, My Way... A disco Night And Day is the cuckoo in the nest, while Strangers In The Night remains the passionate high-flyer. Reprise vinyl LP (Vivante)

Music OOOOO Sonic OOOOO

#### **LED ZEPPELIN** Early Years, Best of. Vol. 1

After a Zep set that sums it all up? Well this – with Stairway, Dazed and Black Dog – is the one. The original Whole Lotta Love, also sounds explosively 3D on wax.
Atlantic Vinyl dble LP (Vivante)

Music OCOCO Sonic OCOCO







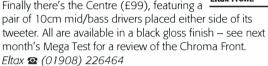
## **Chroma domes**



Danish loudspeaker specialist Eltax has launched a new range of metalconed models, intended for both

two-channel and multi-channel use. The Chroma Series features a floorstander, a standmounter, a bi-polar surround speaker and a centre channel model, all sporting aluminium mid/bass cones and tweeters.

Simply named Front, the floorstander (£299) is a 2.5-way speaker with twin 16.5cm mid/bass drivers and a 96cm tall cabinet. It can be used as a pair, or as the main speakers in a Chroma multi-channel set-up. The 21cm tall standmounter (£129), called Satellite, features a 10.5cm mid/bass drive unit; it can also be used as a stereo pair, or as rear speakers in a multi-channel system. Alternatively, the Bipolar (£149) can be used at the rear, complete with its twin 10cm drivers for a more diffuse sound field. Finally there's the Centre (£99), featuring a pair of 10cm mid/bass drivers placed either side of its





# Hitachi DV-W1E.

## **DVD & CDR Hybrid**



Interested in DVD? Fancy recording your own CDs? Hitachi has become the first manufacturer to combine these two hot technologies in one box,

creating a convenient, affordable solution to the problem. The DV-W1E is a dual-drive player, with a fully-specified DVD mechanism on one side and a CD-RW drive on the other. The DVD section includes built-in Dolby Digital decoding, dts compatibility and Hitachi's disc navigation system. The only other gear you need is a TV, amp and speakers. The DV-W1E is expected to cost £500-£600 and should be in the shops by the time you read this. Hitachi 22 (01628) 643000

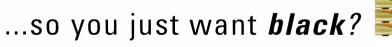
## UNIVERSAL REMOTE GIVEAWAY!

Tired of cluttering your coffee table with hi-fi handsets? Fret no more — One For All has developed the Audio Zapper, which will operate most CD and MD players, amps, tuners and cassette decks that have provision for remote control. It comes in champagne gold or metallic blue, and costs £20.

Then again, we've got 20 Audio Zappers to give away, courtesy of One For All. Just send your name and address to: One For All Give-away, Hi-Fi Choice, Future Publishing, 99 Baker Street, London W1M 1FB.









## TIME FLIES

## Jason Kennedy asks: how have our hi-fi systems changed in the last 25 years?



ack in 1976, when this magazine first saw the light of publication in its diminutive A5 format, the hi-fi in the average music lover's home was significantly different to today.

Apart from anything else, there has been an awful lot of refinement and tweaking going on since then, to the point that what were once considered tweaks are now fundamental tenets of audiophile practice. Take cable; although the notion that cables varied was mooted by a few in the late '70s, it wasn't until the mid '80s that the subject was taken seriously, and now no system worth its salt would be seen without carefully selected connecting wires.

We've come to appreciate that the little things matter: equipment supports, speaker stands, isolation platforms and feet are all taken for granted. But back in '76 they thought a spike was a nasty mains vagary, rather than the crux of loudspeaker support that it has become. In 1990 when Paul Messenger summarised the '80s, what did he select as the



most important contribution to domestic hi-fi – the CD player? No, it was the spike. Which says something about his attitude to that rather successful medium, but also puts into context the importance that tweaks have for the enthusiast.

Anyone who suggested that the material and design of cables, including those for the mains, was a significant factor for sound quality in an era when certain high profile companies claimed that amps all sounded the

same would have been branded a lunatic. Some still agree with the notion that if it can't be measured it doesn't exist, but they must be measuring the wrong thing – otherwise, there's little explanation for the continued proliferation of the vinyl record.

CD was, if not the greatest contribution to high fidelity, certainly the most significant creation of the last 25 years in both the hi-fi world and beyond. It brought a flat frequency response source to the masses and eroded the market for separate components by making it possible to create inexpensive, packaged systems that sound remarkably good.

But it also undermined the hi-fi press by being relatively immune to upgrading. The difference between a £100 CD player and a £1,000 one is about ten per cent of the difference between similarly priced record players, especially on a quick A/B demonstration. The fact that there are still audiophiles who'd rather listen to a £100 record player than a £1,000 CD player just goes to show what a eccentric bunch we are.

Not a great deal has happened to amplifiers over the last quarter century; granted, they've become leaner and meaner, and even more powerful in real terms – you couldn't get a genuine 70 Watt amp for the equivalent of £200 (Rotel RA-971) in 1986, let alone '76.



One change is the reappearance of the vacuum tube or valve in mid to high-end circles. Such things must have been at their nadir in the late '70s, yet they made a significant comeback in the '90s and don't appear to be going away if landmarks like the re-introduction of the Western Electric 300B

tube are anything to go by.

Loudspeakers

likewise have not changed dramatically in appearance, but

they have got significantly less expensive, and materials have changed at both ends of the while we wait for DVD-A. The format of the future looks set to be MP3, an Internet-spawned compression system designed primarily for efficient downloading, but nonetheless one that may end up ruling the music-on-the-move roost in future. After all, where do we listen to music these days?

That would seem to be the most significant difference between listening now and 25 years ago, then we sat down and paid attention to the music. Now the only time we can do that is in the car or bus. Only the hi-fi enthusiast seems to be prepared to put in what it takes to get the most out of music, and that's what living is all about.

#### "CD was, if not the greatest contribution to hi-fi, certainly the most significant creation of the past 25 years in the hi-fi world."

quality scale. Budget speakers employ plastic baffles and are constructed on the other side of the world, while high-end designs resort to ever more exotic materials like carbon fibre, resins and Kevlar, not to mention woven polypropylene and aluminium. While the metal cone isn't strictly a new thing (GEC produced the first one in the fifties), it has seen a real upturn in fortunes across the board from the high-end B&W Nautilus to the latest Acoustic Energy designs.

Formats have also come and gone over the years. What happened to Elcaset? Sony's ill-fated cassette competitor suffered a similar fate to Philips' DCC, a digital tape format that was eventually thwarted by MiniDisc – but then, how long will that survive the onslaught of CD-R?

There were semi-successful mediums like DAT which didn't make it in the home but made serious inroads into the studio world, and more recently DAD – an audiophile-only subset of the DVD format created in the late '90s and still ticking over

#### PAUL MESSENGER REFLECTS ON A QUARTER CENTURY

I well remember when Hi-Fi Choice burst onto the scene. It was only a little book/magazine (no one was quite sure which) in its original A5 format, but it had a disproportionately large impact on the hi-fi scene in the mid-1970s.

It wasn't the first magazine to major on large comparative group reviews – *Hi-Fi for Pleasure* had led the way a couple of years previously. But it was certainly the first to attempt to

Top left: Living Voice Air Partner and Meridian MCD-Pro. Left: Sony WM-D6C Pro Walkman. Right: B&W Nautilus. Top right: Audio Note Ongaku. Below: Townshend Rock Reference.



## **ROKSAN** Kandy

Kandy

andy is Roksan's new entrylevel component range, which is intended to retain something of the purist audio attributes of previous Roksan components, but at a lower price, and in a range of colours to add a little fun to a traditionally

rather dour product category.

And why not? The Kandy range is available with its 6mm thick alloy extruded fascias finished in blue, yellow, purple, green, pink or gold - all metallic finished - and let's not forget boring old natural brushed aluminium which, as luck would have it, was the one that was sent for test

It is also possible to buy new front panels separately, which are provisionally priced at less than £35 each. The test player was well finished, and early samples of the front panels look like anodised aluminium at first glance, although in fact the colour is a type of paint. The remote control has a fittingly bright silvered finish.

The colourful product literature makes light of all the technical stuff that's hidden under the bonnet. It turns out that the Kandy employs mainly middle of the range (sub-Caspian, for example) internal components, including a Sony mechanism (using its own suspension rather than the add-on suspensions specified for more expensive Roksan players), a Burr-Brown 1710 D/A converter and NE5532 output op-amps. The circuit has six separate regulated

#### "By no means a poor player, the Kandy is perhaps best described as rather oldfashioned, a little rough around the edges."

power supplies taken from a single toroidal transformer, which has separate windings for the analogue and digital circuits.

The player features optical and electrical digital S/PDIF output, but there is no headphone option. Mains switching is on the rear, which amounts to a rather broad hint that the player should be left under power unless it is not to be used for an extended period.

All the basic features you would expect are available from the front panel, with the handset adding random track access, intro scan, repeat, random and programme play to the mix.

#### **SOUND QUALITY**

The performance of the Roksan Kandy through all the listening tests was determinedly middle-ofthe-road. The dynamic Buena Vista track sounded "muddled and congested" and "didn't hang together properly", and there were

also complaints of "mild colorations" and "poor timing".

ROKSAN

The more refined piano and acoustic vocal tracks (Kissin, Janis lan) were handled somewhat better, again with some complaints of coloration, but also with praise for the "very natural way that notes decayed" (Kissin), and "a lively, involving quality that times well" (Janis Ian). Overall, the player was described as sounding like a "good budget player" and "not especially sophisticated", but also variously "atmospheric", with "good detail" and capable of "doing a good job separating the various instruments".

The hands-on testing confirmed that the Kandy sounds broadly consistent from system to system, and confirmed the other findings too, which add up to a slightly confusing picture of a player which, although generally clean and open sounding, is also a little rough and ready, even by the

standards of cheaper players like the Marantz 6000 OSE, to give just one example.

#### CONCLUSION

By no means a poor player, the Kandy is perhaps best described as rather old-fashioned, a little rough around the edges by current standards, and a bit too ready to impose its own character on the music. It is a bit of a looker though, and probably the only player to combine serious sound quality with the ability to be dressed in different colour schemes.



- An intriguing combination of neoaudiophile sound quality and designer good looks, but only has moderate musical value.
- **TWO YEAR GUARANTEE**
- Roksan Audio, 6 Northfield Industrial Estate, Beresford Avenue, Alperton, Middlesex HAO 1NW
- **2** (020) 8900 6801

#### THE LAB REPORT

ROKSAN

n a marked departure from its competitors, Roksan has eschewed the 'easy option' of adopting the latest so-called 24bit DACs for something altogether older and trickier to implement. This is the

PCM1710, a hybrid DAC from Burr-Brown used in earlier players from Arcam (the Alpha 7) and NAD's 522. The chip will suppress digital images by

60dB or so but, because of its noise-shaping technology, pro-

duces extremely high levels of ultrasonic noise which, as I've explained before, can result in an unpredictable sound with different amplifiers. The fact that the Kandy has been primarily designed to integrate within the Roksan system now begins to make a little more sense - at least here its interaction is well understood.

Otherwise, we're looking at a player dominated by a DAC, from the +1.5dB/-2.5dB errors in low-level resolution, the widely varying harmonic distortion (0.004-0.4 per cent at -30dBFs) and all-too-familiar idle-tone that wanders around 1kHz

> and reduces the Awtd S/N ratio to 95.0dB.

Regardless of Roksan's use of a

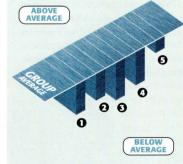
decent Sony transport, custom motherboards and multiple supply regulation, it's very difficult to get the PCM 1710 to behave differently! Even the 450psec of jitter with its even-order, data-induced peaks is perfectly in line with Arcam's Alpha 7. PMi

#### **HOW IT COMPARES**

N ot the most technically advanced player on the market, but one whose patterns of distortion and noise are almost guaranteed to produce a very distinctive sound.



5 LINEARITY



| SPECIFICATIONS            |                   |              |
|---------------------------|-------------------|--------------|
| PARAMETER                 | MANUFACTR'S SPEC. | ACTUAL SPEC. |
| ■ Distortion @ 1kHz/0dBFs | 0.005%            | 0.0015%      |
| ■ Maximum output level    | 2.2V              | 2.2V         |
| ■ A-wtd S/N ratio         | 105dB             | 95.0dB       |



he C540 replaces the C524 (reviewed passim) at a somewhat higher price (£329, up from £250). Both are built around a Burr-Brown DAC that NAD (and others) describe as 24-bit, but which, as usual, simply reads 24-bit data from the digital oversampling filter without truncation. Overall resolution, though, is almost certainly enough to reproduce 16-bit data if handled properly. In both cases, a four-pole analogue output filter is also used, but much of the rest of the design has changed.

Improvements are aimed at enhancing tracking of damaged discs, and the master clock has been mechanically damped to reduce jitter. The analogue stages feature a higher capacity power supply with separate regulation of the digital and analogue supplies, a new output op-amp (now the Burr-Brown 2604, replacing a Signetics part), and new selected stack foil capacitors and metal film resistors, with Elna Cerafine power supply reservoir caps.

At 300 Ohms, output impedance is low enough to avoid undesirable amplifier interactions. Encouragingly, special attention has been paid to areas that are

#### "Overall this is a fine player which is just a bit pedestrian in a crowded field not short of individual talent."

often overlooked, such as the electrical digital output which is transformer-isolated from the converter and fully buffered, with output impedance said to be an accurate 75 Ohms, features carried over from the C524. NAD Link sockets allow unified remote control of a complete NAD system.

Facilities are deliberately basic, but the C540 does feature a simple but adequate display and a straightforward set of play features accessible from the front panel, the trademark compact trapezoidal handset adding a random track access feature.

#### SOUND QUALITY

The C540's predecessor was favourably received and won a Recommendation, but overall standards have a shifted a notch or three upwards since then, and pricing has tended to remain stable or even to fall, whereas the C540 costs considerably more than the C524. The claims of

improved tracking here were not immediately realised; indeed, the player had intermittent problems with a few titles, and handling was very slow – even TOC reading seeming to take an age. However, when it came to playing music, the improvement was obvious.

Curiously, what criticisms there were from the panel echoed those made of the C524. In particular there were complaints that the (Kissin) piano sound was "highly strung and edgy sounding" and that "the music does not flow". Overall the C540 was, for that listener at least, "uninspiring".

The consensus, however, was more positive. "There's a satisfying wholeness about this performance," wrote one panellist, who also noted that "leading edges are very well defined" (Kissin). The Varese orchestral piece, which was a mountain for some of the players to climb, came across with "good musical definition". Another described the C540 as having "the best instrumental and percussion quality so far – clear and detailed, though the voices were a little strident" (Buena Vista Social Club).

The hands-on listening echoed good and bad points alike, but overall this is a fine player which is just a bit pedestrian in a crowded field not short of individual talent.

#### CONCLUSION

The price hike over the previous models is substantial, and ultimately this, plus the relatively poor disc handling, militates against formal recommendation. Still, it is an articulate and refined performer, and should be shortlisted. AG



#### THE LAB REPORT

s far as so-called '24-bit' CD players are Concerned (see *Oasis*, *HFC* 187), manufacturers are neatly divided into those using Crystal's CS4390 DAC and those using Burr-Brown's PCM 1716. NAD has opted for the latter and its performance is largely dictated by this choice. The response shows a mild -0.4dB loss in treble, but this won't generally be audi-

ble. The fact that both this loss and the channel balance varies at

20kHz (by 0.2dB) is

not an uncommon feature of the PCM1716 DAC. The 80dB suppression of digital 'images' is also par for the course, even though it's about 20dB behind the specification of Crystal's and Sony's latest chips.

Jitter is low at 228psec and primarily composed of a modulation at +/-671Hz which is specific to the player's internal layout rather than the DAC. The 217ppm clock error, however, could do with being tightened up. NAD's proprietary four-pole active filter successfully eats into the egress of any ultrasonic noise but it does seem to

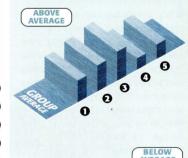
> increase the player's **HF** distortion by nearly 10x. Here a strong second har-

monic reaches 0.035 per cent when figures as low as 0.003 per cent are possible (MF's A3 CD player being an example). Do also be on guard against unmatched A/B demos, because the high 2.3V output may put the NAD at an advantage.

#### **HOW IT COMPARES**

A good digital implementation of a popular 24-bit DAC with custom analogue electronics to provide some additional 'flavouring' of the sound.





#### **SPECIFICATIONS**

| PARAMETER                 | MANUFACTR'S SPEC. | ACTUAL SPEC. |
|---------------------------|-------------------|--------------|
| ■ Distortion @ 1kHz/0dBFs | 0.007%            | 0.002%       |
| ■ Maximum output level    | 2.0V              | 2.3V         |
| ■ A-wtd S/N ratio         | 102dB             | 102dB        |

March 2000 HI-FI CHOICE 31





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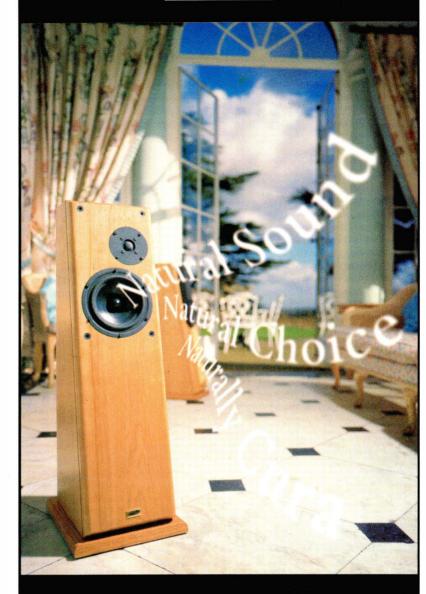


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| Ashford (Kent)    | Soundcraft I  |
|-------------------|---------------|
| Aylesbury         | Northwood     |
| Bishops Stortford | The Audio Fi  |
| Bournemouth       | Suttons HiFi  |
| Brighton          | The Powerpl   |
| Bristol           | Radfords      |
| Cheltenham        | Audio T       |
| Chelmsford        | Rayleigh HiF  |
| Enfield           | Audio T       |
| Epsom             | Audio T       |
| Hitchin           | David Orton   |
| lpswich           | Signals       |
| Guildford         | PJ HiFi       |
| High Wycombe      | Audio T       |
| Lakeside          | Rayleigh HiF  |
| Leicester         | Leicester Hif |
| London (W1)       | The Cornflat  |
| London (NW)       | Audio T       |
| London (SE)       | Billy Vee     |
| London (SW)       | Auditorium    |
| London (SW)       | Oranges & L   |
| London (SW)       | SMC           |
| London (W)        | Thomas Heir   |
| Margate           | LMD Audio     |
| Newton Abbot      | Audio Speci   |
| Oxford            | Audio T       |
| Peterborough      | The HiFi Con  |
| Rayleigh          | Rayleigh HiF  |
| Sheffield         | Moorgate A    |
| Southampton       | Audio T       |
| Southend          | Rayleigh HiF  |
| St Albans         | Radlett Aud   |
| Swansea           | Audio Excel   |
| Taunton           | Mike Mannir   |
| Worthing          | Phase 3       |
| Worcester         | Seven Oaks    |
| Yeovil            | Mike Mannir   |

| undcraft HiFi    | 01233 624441  |
|------------------|---------------|
| thwood Audio     | 01296 428790  |
| Audio File       | 01279 506576  |
| tons HiFi        | 01202 555512  |
| Powerplant       | 01273 775978  |
| dfords           | 0117 944 1010 |
| dio T            | 01242 583960  |
| rleigh HiFi      | 01245 265245  |
| dio T            | 0208 367 3132 |
| dio T            | 01372 748888  |
| vid Orton        | 01462 452248  |
| nals             | 01473 622866  |
| HiFi             | 01483 504801  |
| dio T            | 01494 558585  |
| /leigh HiFi      | 01708 680551  |
| cester HiFi      | 0116 253 9753 |
| Cornflake Shop   | 0207 631 0472 |
| dio T            | 0207 794 7848 |
| Vee              | 0208 318 5755 |
| ditorium         | 0207 384 3030 |
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| С                | 0171 819 1700 |
| mas Heinitz      | 0207 229 2077 |
| D Audio          | 01843 220092  |
| dio Specialists  | 01626 333871  |
| dio T            | 01865 765961  |
| HiFi Company     | 01733 341755  |
| /leigh HiFi      | 01268 779762  |
| orgate Acoustics | 0114 275 6048 |
| dio T            | 023 8025 2827 |
| /leigh HiFi      | 01702 435255  |
| dlett Audio      | 01727 855577  |
| dio Excellence   | 01792 474608  |
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## **MARANTZ** 6000 OSE

ere is a neat, near budget CD player Marantz, which is the least costly of our middle price band here, and about halfway through the eleven models tested if arranged

#### "This is a smooth, attractive sounding and highly articulate player that works consistently well with a range of material."

Equipment version of the 6000 CD player. The engine that drives it is a dual differential mode bitstream processor, with a discrete HDAMS (Hyper Dynamic Amplifier Module) low output impedance, high slew rate output buffer amplifier. The mechanically quiet VAM-

according to price. OSE indicates

that this is the Original Special

1201 mechanism is combined with a quick acting laser servo which can handle CD-Rs and low reflectivity rewritable CD-RW discs.

Improvements over the standard article include more screening around the HDAM module. which also includes a new low pass analogue output filter, an increased power transformer capacity and better OFC windings, higher quality capacitors and reinforcement of the base plate.

The 6000 is CD Text-equipped, with track titles shown on a good quality dot matrix display. The compact but well equipped and cleverly laid-out remote control is included which adds a number of search and edit functions, although the player's front panel is more than routinely well equipped in this respect. Connection options include a headphone socket, electrical and optical digital outputs and system link sockets.

None of this quite does justice to a player that could easily pass as one costing twice as much as it does. The 6000 OSE feels solid. has particularly excellent controls, and has a smooth, sweet loader.

#### SOUND QUALITY

This player delivers the familiar Marantz house sound, which means that it is smooth and refined, with a constrained, and perhaps even slightly rolled-off treble, while the bass is full and by some accounts - a little heavy-handed.

"There's a lack of bass control," complained one listener of the Buena Vista test track, "but timing is good, and the vocals sound natural and enjoyable" - although the same listener found Janis Ian's voice "slightly strident" (a rare criticism indeed).

The Kissin recording was described by another panellist as "like a real piano, with good dynamics and detail rendition, and clear harmonics", while he found the Janis Ian recording had a "nice vocal/instrumental balance, an easy flow to the rhythms and a clearly defined bass line". He found the Marantz offered clear definition of the different instrumental tonal colours in the Varese.

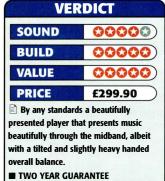
About the worst that can be said of the Marantz 6000 OSE is that it is not as muscular and dynamic as it might be, although few costing less than £300 do better, and there is more than a hint of the distinctive, slightly tilted tonality and what might be described as 'politeness' or 'restraint' often associated with Marantz players.

In the end, however, such things are largely a matter of personal taste, and apart from a trace of heavy-handed bass, which suggests that the system amplifier is

not always being properly controlled, this is a smooth, attractive sounding and highly articulate player that works consistently well with a wide range of material.

#### CONCLUSION

Here is a £300 player built like one costing twice as much, and if it doesn't sound as good as it looks, it come close, only occasionally sounding a touch heavyhanded. This player is remarkably good value, and on that basis, it is an obvious Best Buy.



Marantz, Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 0EH **2** (01753) 680868

#### THE LAB REPORT

he distinctive appearance and sound of the CD6000 OSE belies the fact that this is Marantz's first real evolution in its budget CD player technology for many years. For example, two of its favourite SM5872 DACs (from NPC) are now employed in a dual-

differential configuration, while a combination of discrete HDAM (Hyper **Dynamic Amplifier** Modules) constitute

both analogue filtering and analogue output stages. The new circuit layout has reduced jitter levels from the 500-600psec suffered by the original CD63/67 series to 350psec, while errors in low-level linearity are squeezed to +0.0/-0.9dB over a full 100dB dynamic range. Stereo separation exceeds 120dB at all frequencies!

Distortion is improved too, never rising above 0.003 per cent at the 2.0V peak output, even though its output impedance is hardly breathtakingly low at 260 Ohms.

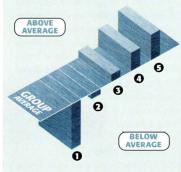
> On the other hand, its Awtd S/N ratio is some 6dB worse than its predecessors at 96dB - the

opposite of what you'd expect from a differential circuit. This is not an issue from the point of view of sound quality; nevertheless, Marantz's engineers have confirmed these figures, suggesting that the extra noise is caused by the HDAM filter. stage and additional logic circuitry required to synchronise the two converters. PMi

#### **HOW IT COMPARES**

genuine enhancement of a familiar A theme that yields both technical and subjective benefits.





| SPECIFICATIONS            |                   |              |
|---------------------------|-------------------|--------------|
| PARAMETER                 | MANUFACTR'S SPEC. | ACTUAL SPEC. |
| ■ Distortion @ 1kHz/0dBFs | 0.0025%           | 0.0009%      |
| ■ Maximum output level    | 2.0V              | 2.0V         |
| ■ A-wtd S/N ratio         | 100dB             | 96.3dB       |

## **SONY CDP-XE530**

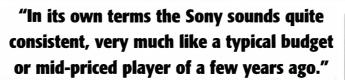
ust shy of being the least expensive player in this group, the CDP-XE530 looks at first sight to be unfeasibly well specified. The front panel controls include a wider range of programming, random play, fade and assorted edit and time edit functions than most players pack onto their remote controls.

But this is only the start for a player that comes with a digital output level control (although it defaults to full level every time the player is switched off), a headphone socket adjustable from the handset, and CD Text, with multilanguage support. Phew!

The player will seek the highest level passage on disc for use when recording onto analogue tape, and digital recordings can be made using the optical digital output. It almost seems churlish under the circumstances to complain that there's no electrical digital output here.

The Sony is as well finished as one would expect of the marque, but there has been no squandering of resources. The casework is flimsy, the front panel is finest moulded plastic, and the controls feel astonishingly good given how little seems to have been expended on the bits that show.

The rotary track selector is by far the quickest and most pleasing way to select track numbers other than the first on the disc, and the loading drawer is surprisingly quiet



and refined. The remote control is a characteristically excellent sticktype, with an unusually well grouped and clearly signposted control layout.

It all sounds very impressive, but there is a significant difference between this player and other Sony models tested of late. For cost reasons, this model has not been through the UK-based product-tweaking programme that has served Sony so well.

#### SOUND QUALITY

Correctly matched to its initial presentation by one listener when repeated, and receiving consistent - consistently poor, that is scores all round, the CDP-XE530 breaks the mould for a brand that has scored some significant hits in the recent past.

The following panel comments are typical: "Poor transient response, dull, a bit heavy and ponderous," (Buena Vista Social

Club); "Not like a Steinway, sounds like an upright, with little resonance, and lacking weight... enjoyable, but I found my mind drifting," (Kissin); "Vocals are OK, but the bass is a bit ponderous (and) lacking emotion," (Janis Ian); "Bass is wooden, brass muted, muddy and lacking in insight," (Varese).

There was plenty more in the same vein, as well as some more positive responses (albeit punctuated by expressions like "OK, but..."); a very telling comment was made by one panellist to the effect that the Sony sounded "chromium-plated".

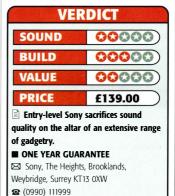
Indeed it does. In the hands-on testing, the Sony sounded appropriately punchy in the context of a low-cost, inexpensive system (which included, for reasons we haven't room to go into here, a Sonv micro system).

However, in more ambitious surroundings the CDP-XE530 had a strong sense of surface detail but was lacking in image depth, weight and dynamic range.

In its own terms the Sony sounds quite consistent, very like a typical budget or mid-priced player of a few years ago, but without the civilising warmth and grace of the best contemporary designs.

#### CONCLUSION

The bottom line is that this is a messy, unsophisticated performer, lacking in depth and substance. Therefore, despite an excellent control set and undeniably attractive pricing, the CDP-XE530 is not recommended.



#### THE LAB REPORT

his isn't a stripped-down version of Sony's costlier CD players, but has a lineage that can be traced back to budget units like the CDP-XE510 (HFC 172). All rely on a heavily integrated version of Sony's Pulse DAC technology where the digital filtering, noise shap-

ing and conversion are condensed onto a common substrate.

Superficially, the

CDP-XE530 turns in a great set of figures, including very low 0.001 per cent distortion at OdBFs (just 0.006 per cent at -30dBFs), a healthy 103.5dB S/N ratio and mere +0.4/-0.5dB errors in linearity over a full 100dB range. Stereo separation exceeds 100dB and the response is as flat as is practical but,

like its forebears, the CDP-XE530 still harbours a technical oddity.

The last season has seen Sony remove almost all the power supply-related jitter that swamped models like the '510. Nevertheless, calculating jitter levels is still

rather tricky, because its analogue noise remains infested with a digital 'hash' around the -

116dB level. Sure

enough, this is extremely low, but as it populates the entire spectrum, its influence can't be ignored and, in my view, may well explain the congested sound reported on the listening days.

With all other obstacles now dealt with, this remaining issue must surely be the model's Achilles' Heel.

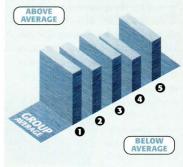
#### **HOW IT COMPARES**

ony has enjoyed almost uniform Spraise for its CD players up to this point, but then the differences in digital technology are more than sufficient to explain the result in this instance.



PARAMETER

■ A-wtd S/N ratio



#### SPECIFICATIONS MANUFACTR'S SPEC. ACTUAL SPEC. ■ Distortion @ 1kHz/0dBFs <0.0045% 0.001% ■ Maximum output level 2.0V 2.0V >100dB 103.5dB

## **YO** DX7222

ONKYO

dise

he DX7222 is an apparently conventional budget CD player based around a 1-bit PWM converter with an 8x oversampling digital filter, but very little additional information was available in time for this test from

the new UK distributor, Jamo. The player is, however, quite impressively equipped, the only mild qualification arising from the still better endowed Sony CDP-XE5390 (see opposite page), which costs even less.

But the Onkyo is a comprehensively more solid and better built product, and still manages to offer more features than many people will ever find a use for, including a headphone socket with a volume control (a rotary potentiometer next to the socket, a superior arrangement to the Sony's digital control), programming for up to 36 tracks and delete programming. Just think: you can eliminate the Boyzone track on an otherwise listenable compilation in one simple, satisfying step. Listen to this and quake, Uncle Cliff...

Also on tap are time edit, to cram more onto tapes of specified lengths, peak search, random play, and five repeat modes, some of which are only available from the palm-sized remote control. The player itself is pretty well laid out, if not a particularly inspired piece of industrial design, and the display includes more information than you'll probably ever want or need



to know, although significantly it lacks CD Text.

Digital output is available from an optical Toslink socket, with no electrical alternative, while other rear panel sockets are available for linking with other Onkyo components for control purposes.

#### SOUND QUALITY

The DX-7222 showed a "lack of sparkle" and an "overblown bass", especially in the Buena Vista recording, according to one listener who was acute enough to identify when the player was repeated in the tests. But he also felt the player sounded "big and well controlled" other than in the bass, and that the band had "considerable drive and tension". Other panellists felt the player sounded rather lacking in control in this piece, but the quieter test tracks were generally handled better.

The Kissin piano recording, for example, was described as

"believable" and "articulate" with "good tonal definition and dynamics" while the Janis Ian song was "nice and easy, with good vocal quality, very clear bass lines and a good ambient effect".

The panel felt that the more difficult Varese orchestral excerpt was clearly handled well. "The various instruments are clearly defined, and the bass is particularly good," wrote one, while another commented on its "big, open acoustic, and strong dynamic impact".

However, the player did not emerge quite so cleanly from the hands-on testing, where some loss of clarity and image focus was experienced, especially in quite simple pieces.

Image scale tended to be exaggerated with chamber recordings used in the test (mainly solo piano, wind ensemble and string quartets), and the bass was identified as overblown and not entirely natural in quality with some rock

recordings (Alice in Chains, for instance) – qualities that were also identified at times by some of the panel.

#### CONCLUSION

Certainly not a great player, the Onkyo was nevertheless a broadly satisfying one on the whole - particularly so given the two year guarantee and price drop from £170 to £150 introduced by Jamo, the newly appointed UK distributor, shortly before this review was completed. Taking the strong equipment levels into account, a Recommended swing tag seems in order.



- Not a natural front runner, this is nevertheless a well endowed player, enjoyable if sometimes slightly defocused sounding at an attractive price.
- **TWO YEAR GUARANTEE**
- ☑ Jamo, Oakfield Park, Milton Road, Rugby Warwickshire CV22 7AL
- **2** (01788) 556777

#### THE LAB REPORT

quick glance at the DX-7222's specifi-A cation might indicate all was well, but there are one or two issues that floor the player at the last hurdle. For example, distortion is low enough at 0.002 per cent through bass and midrange, although this increases by 10x at HF. Then there's the

97dB A-wtd S/N ratio - a bit low perhaps, but still quite adequate for CD's 16-bit

code. Low-level linearity also holds true to within +/-0.5dB over a 90dB range, thanks to Onkyo's use of a bitstream-style DAC technology. Indeed, the excellent suppression of ultrasonic noise is rather surprising given its use of a PWM DAC.

So far so good. Only, the digital filter

provides just 28dB of rejection of unwanted digital 'images' and, thanks to something called Gibb's phenomenon (see Oasis, HFC 188/189) also prompts a little peak in its HF response (+0.2dB at 16kHz, -0.7dB at 20kHz). All this means that the extra energy close into the audioband could result in a form of intermodula-

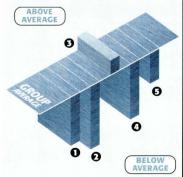
> tion distortion folding back into the music band with certain

amplifiers. Finally, and despite Onkyo's use of a good crystal clock, this player's huge 2,908psecs of mainly power-supply induced and spurious high-rate jitter is more than sufficient to account for the "poor sense of rhythm" and "roughness" indicated, respectively, by the panel. PMi

#### **HOW IT COMPARES**

adly, this player doesn't live up to Sthe technical standards of Onkyo's previous machines, even taking into account the very generous price tag.





| CIFICATION | S                         |                            |
|------------|---------------------------|----------------------------|
| CLAIMED    | MEASURED                  |                            |
| 0.005%     | 0.003%                    |                            |
| 2.0V       | 2.0V                      |                            |
| 90dB       | 97.0dB                    |                            |
|            | CLAIMED<br>0.005%<br>2.0V | 0.005% 0.003%<br>2.0V 2.0V |



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price bands).

## **ENON DCD-655**

enon's latest busy looking CD player slots firmly in the budget category at well under £200, although there DENON PCM are three less costly players in the test. This places it at the top of our budget 'A' list, but it's still £120 less than the cheapest of

#### the B group (the letters indicate "The inherent clarity and definition made this a good choice for long-term listening, and one that rose to the occasion."

The DCD-655 employs Denon's proprietary Lambda Super Linear Converter as a way of eliminating zero cross-distortion, which historically allowed Denon to persevere with multi-bit converters (here a 20-bit design) long after most of the competition had thrown the baby out with the bathwater, with early, and too often musically deficient, single and low-bit converters.

The equipment levels are a little unusual. The player has a fairly full set of controls on its front panel, which is also adorned by a dimmable blue fluorescent display, including a thermometer-style track readout which is unfortunately positioned below the centrally positioned loading drawer, where it may be hidden when the drawer is open.

However, tracks can be selected or preselected using an excellent rotary control, which is a vast improvement on the standard issue buttons that increment track numbers by one with each press. A pair of controls allow the replay speed and pitch to be adjusted

between -12 per cent and +12per cent of nominal (analogue output only), although the remote control, an attractive compact unit, doesn't address this feature.

You also get a full complement of tape editing features (a Denon cassette deck can be connected using the synchro sockets), and the Denon has an output level control which operates in 20 1dB steps. Headphones can be connected through a front panel socket with volume control.

#### SOUND QUALITY

There was some scattering of scores through the panel tests, but on the whole, and despite come criticisms, this player was well liked. "It has a lightness of touch and a pleasing deftness [which gives it a] soft, mellow feel," was one response to the Buena Vista Social Club track. Another panellist wrote that the Denon sounded

"forceful and a bit 'thick' sounding, but otherwise fine", while a third described it as "easy to listen to". This is a particularly high octane track, and not easy to reproduce.

The piano recording was described as "clangy, not like a Steinway" by one, but was treated more favourably by others: "Good instrumental definition, light and agile," and "OK, but a little veiled," being typical responses.

The slightly soft-edged quality was also apparent in the hands-on testing, but there was also plenty of detail, and a pleasant, ambient glow from appropriate recordings. Initially open and vibrant, the DCD-655 can come across as a little lacking in dynamics and energy, but this impression tended to fade with time.

The inherent clarity and definition made this a good choice for long term listening, and one that rose to the occasion with difficult, densely scored orchestral and vocal recordings.

Avoid this player if your system is lacking in presence or tonally dull, but many budget systems tend to err in just the opposite direction, and the Denon is a well judged choice for such systems.

#### CONCLUSION

This well equipped budget player offers something for everyone, including excellent tape editing features (but the pitch change feature only works from the analogue output), quick track search and decent, slightly restrained sound quality. Recommended.



#### THE LAB REPORT

collowing in the footsteps of the DCD-615,625and635 (HFCs 139, 147 and 172 respectively), the DCD-655 is, nonetheless, the first budget player from Denon to use a 20-bit DAC technology. All previous versions were equipped with the 18-bit

PCM61P from Burr-Brown, and while the 8x oversampling filter remains unchanged (offering 54dB of stopband rej-

ection), the DACs are now 20-bit PCM 1702s. This technology offers the benefits of very low ultrasonic noise and, compared with the 18-bit derivatives, a lower 0.01-0.02 per cent distortion at -30dBFs (instead of 0.05-0.08 per cent). At peak level (0dBFs), distortion is suitably low at 0.001-0.002 per cent through bass and midrange but picks up, thanks to a strong second/third harmonic, to 0.04 per cent at 20kHz.

Likely as not, this is due to the analogue output stage which, incidentally, peaks at just 1.85V, so watch out for unmatched A/B

> demonstrations. This is crucial, for the DCD-655 has a lot going for it -

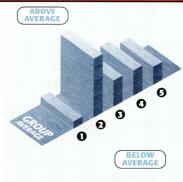
including a 102.8dB S/N ratio, very low 190psec jitter, excellent low-level linearity and a mere -0.2dB loss in response at 20kHz. The 0.2dB error in channel balance is a little puzzling, but should not exert any audible impact. For best results, don't forget to null the 12-step pitch control and set the 20dB digital volume to '0'.

#### **HOW IT COMPARES**

(01753) 888447

practical and clearly very success-A ful upgrade on Denon's previous budget players. Technically, it's on the nail, but do watch out for the slightly low output level.





#### **SPECIFICATIONS SPECIFICATION** CLAIMED **MEASURED** ■ Distortion @ 1kHz/0dBFs 0.003% 0.002% ■ Maximum output level 2.0V 1.9V ■ A-wtd S/N ratio 107dB 102.8dB

CAMBRIDGE

## **CAMBRIDGE AUDIO** D100



he least costly player in our group, the slimline D100 has a number of refinements that are unusual if not unique at the price. One example is the black painted alloy front panel where a plastic moulding would normally be found.

More significantly, the D/A processor daughterboard can be swapped out for enhanced processor boards when they become available, although whether it'll ever be worth upgrading the DAC in a player that is inevitably compromised in other areas is open to question.

The native control set - play, jog-type cue and track skip, programming and random play keys - are supplemented by a remote, which adds a random access keypad. An optical digital output is available, alongside blanked-off areas preassigned for electrical digital outputs and for a second optical socket which is apparently reserved for a clock lock circuit, which implies that a matching outboard DAC will be made available.

The D100 employs a custom servo controller from Sony, which dynamically varies focusing,

#### "This player imposes its own character on the music, with a uniformity that made long-term listening unrewarding."

tracking and laser output level. Separate stabilised power supplies feed the digital and analogue circuits, and the DAC is a Delta Sigma-type from Crystal.

There are some operational peculiarities, such as the control logic that won't allow play mode to be selected before the drawer is closed, and overrun with the skip control. More significantly, tracking was intermittently suspect, not least with the Janis Ian test track, which performed faultlessly with the other players.

#### **SOUND QUALITY**

Plenty of unanimity here, but the panel wasn't exactly clamorous in its praise for the D100, which was described as loud (twice), slow (twice) and bass heavy, with edginess in the treble and a boomy, rather muddy bass quality consistently identified throughout the tests. "Thin and sounds loud,"

wrote one panellist following the complex and high-octane Buena Vista track, "and not very subtle." Another described the same track as "loud, flat and lumbering".

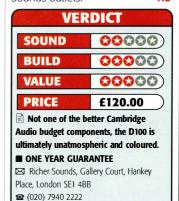
In a separate presentation, the Janis Ian recording was described as "having a pleasant balance, but tends to be bass-heavy", and a second listener, writing about the same, rather refined recording, described the presentation as "light and tuneful", with a "good vocal apart from a sibilant edge", while he identified a "clangy overhang" in the Kissin piano recording, which he also described as having "unclear passage work".

The hands-on testing was consistent with the panel tests; it was soon apparent that this player imposes its own character on the music, with a uniformity through a range of recordings that made long-term listening unrewarding. The problems identified by the

panel at the frequency extremes were also evident, but it was the inability to resolve fine ambient detail, along with a suggestion of midband coloration, that represented the main limitations.

#### CONCLUSION

Cambridge Audio has a strong track record for high performance with some of its least costly components, but this model does not live up to past form, and in the circumstances the promise of future upgrades isn't enough to tip the balance. Note that the brand is available only through Richer Sounds outlets.



#### THE LAB REPORT

**E** ven among budget players, the D100 is exceptionally affordable and this at least partially justifies Cambridge's use of a low-cost CS4338 DAC. This Crystal part will accept a 24-bit input, but is typically used in portable players where its 16-bit output specification is

less of an issue. In practice, the 1dB error in resolution at -90dBFs is perfectly acceptable,

as is the increase in distortion from 0.004 to 0.016 per cent through midband to high frequencies. Noise (a 'hissy' white noise, rather than hum) is rather high at -80dB, however, probably because the bulk of the player's circuitry is mounted on the servo PCB and fed from a shared power supply. Indirectly, this is linked to the panel results recorded by Alvin.

Otherwise, the DAC's on-chip digital filter provides just 51dB of stopband rejection, although the player's output of ultrasonic rubbish is usefully suppressed by Cambridge's own analogue

filter. The relatively high 160ppm clock error won't be

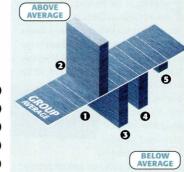
audible (see the Monrio Asty review, p36), but it is another indication of Cambridge's sensible cost-cutting.

Very close-tolerance crystals (less than 20ppm) are simply an unnecessary expense in a product of this nature and need not directly affect digital jitter which, in this case, amounts to just 280psec.

#### **COMPARES HOW IT**

successful exercise in cost-over-Aengineering and perhaps the only player available to enthusiasts on the strictest of budgets.





| PARAMETER                 | MANUFACTR'S SPEC. | ACTUAL SPEC. |  |
|---------------------------|-------------------|--------------|--|
| ■ Distortion @ 1kHz/0dBFs | 0.01%             | 0.004%       |  |
| ■ Maximum output level    | 2.1V              | 2.1V         |  |
| ■ A-wtd S/N ratio         | >95dB             | 80dB         |  |





process. After all, don't you find much the same components in CD players at all price levels?

To an extent, there's no blanket answer, but it seems (to me at least) that there's more graduation in performance with price now than in the past. Perhaps this should not come as too much of a surprise given that even if the all the digital clockwork in different players was the same, which in fact it isn't, CD players are stuffed full of analogue circuitry, and their design responds as much to good analogue audio design practice as any other.

Of course there is, and can be, no definitive answer to the crucial first question of how much you should allocate to your CD player. It is this central type of uncertainty that is one reason why the hobby of hi-fi (as opposed to high fidelity simply as a tool for reproducing music) is such an absorbing one.

Thunder 1

(

The point is that more expensive players often sound better than cheaper ones, with some notable exceptions. The differences can be both subtle yet musically crucial, and if this isn't the way it seems in particular equipment combinations, it may be that the rest of the system is masking the differences.

## 10

#### **HINTS & TIPS**

Extracting the best from your CD player is, to a t, a matter of common players don't like to be ru

large extent, a matter of common sense. CD players don't like to be run from cold, so don't expect the best sound for the first half hour or so, unless (and sometimes even if) yours is one of the growing number of models with a standby feature. Ideally try to avoid stacking the player on top of other hi-fi components, especially if it's a copious heat generator like an amplifier, but if needs must, try to arrange some space and mechanical isolation between the components. We have found that compliant isolating feet can give good results.

#### **GLOSSARY**

DIGITAL CONVERTERS: The slice of silicon that converts the digital signals into an analogue waveform.

Converters come in various forms: the traditional multi-bit or ladder type are the best known, and have known strengths and weaknesses which designers are more or less adept at accommodating.

A recent introduction to the field, by Arcam, is the Ring DAC, a radical topology that goes a significant way towards addressing the failings of previous converter types.

previous converter types. FILTERS: Intrinsic to digital audio is the extensive use of filters, both analogue and digital. These are often very sophisticated in design, and in total probably have more to do with the 'personality' of CD player sound than many other better known factors. **OUTPUT IMPEDANCE:** A measure of resistance to alternating current, a low output impedance (say, below 100 Ohms or so) helps ensure compatibility with most amplifiers, even when using long or unusual designs of interconnect cables. A high impedance, especially in conjunction with an amplifier with a low input impedance (some are as low as eight kOhms, although the standard is 47 kOhms) can result in audible treble losses. JITTER: Jitter represents the uncertainty in the timing of digital signals, which translates into a muddling and loss of

detail and defocused imagery. State of

the art is below 150psec, but figures

over 1,000psec are not uncommon.

#### **GROUP A**

#### £120-£180

This closely priced group includes three very well equipped models, and one – the Cambridge Audio D100 – that is more purist in conception. Only slightly more expensive, the Sony CDP-XE530 is one of the few Sony players that hasn't been through the programme that tweaks off-the-shelf Sony players for the UK market. The Onkyo and Denon are also off-the-shelf models. Onkyo has just changed UK distribution, and celebrates with a price reduction just in time for this test.

| Cambridge Audio D100 | £120.00 |
|----------------------|---------|
| Denon DCD655         | £180.00 |
| Onkyo DX-7222        | £149.95 |
| Sony CDP-XE530       | £139.00 |

#### **GROUP B** £181-£550

A curious mix of models, there are some distinguishing features here. The Marantz is a superbly built player at a price that will cause many a double-take. The NAD is very much business as usual, being comparatively basic in equipment levels and finish and very much focused on the result. Roksan has taken a tangential approach with the Kandy, which blends its traditional approach (albeit not its most sophisticated designs) with a choice of coloured front panels, although the one tested is the sole conventional finish. Finally Talk Electronics supplied its entry-level Thunder model, which is designed to complement modestly priced systems with more typical limitations than normally appropriate for their players. Marantz 6000 OSE

## Marantz 6000 OSE £299.90 NAD C540 £329.95 Roksan Kandy £475.00 Talk Electronics Thunder 1 £549.00

## **GROUP C** £551-£900

The contenders in our final group are closely priced, and comparable with each other to the extent that they are all clearly aimed at the enthusiast market, with few of the features common to typical sub-£200 players, for example, to be seen on any of them . In other respects they diverge, taking quite different paths to audio Nirvana, especially in the case of the Monrio Asty, which as Paul Miller explains, and the listening panel discovered, ploughs its own furrow.

| Monrio Asty |  | £695.0 |  |
|-------------|--|--------|--|
|             | Musical Fidelity A3 CD<br>Cyrus dAD3 Q24 | £799.0 |  |
|             | Cyrus dAD3 Q24                           | £900.0 |  |

#### HOW THE TESTS WERE DONE

ur eleven CD players were subject to the usual battery of tests, including a close physical examination, unsighted panel based listening tests in a high grade system, hands-on listening, mainly using a more representatively priced range of speakers and amplifiers, and a computerised measurement test programme by Paul Miller (all published measurements were taken on the QC suite v3.1 highspeed functional testing station). Each player was run in and warmed up prior to being auditioned.

Panel testing, spread over two days, included a large number of repeats, with no panel member knowing the identity of the player on test, and with levels carefully normalised at the beginning of each test run. The system used on this occasion included a Krell KAV250p/KAV150a pre/power amplifier and JMLabs Mezzo Utopia speakers for the unsighted and hands-on tests. Speaker cables and interconnects were from Nordost.

Hands-on listening was broadened to include Arcam Alpha 10 and Musical Fidelity A3 amplifiers, while speakers included Tannoy's R1, the Celestion A1 and others. The reference CD player was a Krell KAV250CD.

#### THE LISTENING PANEL

Our usual sincere thanks go our effervescent listening panel for contributing their listening skills and time. This month's batch included: Colin Hinkins (Mirage, Energy), David Inman (Castle Acoustics), Steve Harris (TAG McLaren, ALR), Keith Haddock (REL, Myrvad), Russell Kaufmann (Morel, Densen) and Roger Batchelor (Denon). At the insistence of one of our panel, we retired to a local Italian eating house on day one, where we prevailed upon them to at least keep the house PA at a low level. On day two, riven by guilt, we made reparations at the local Pizza Express, where no such arm-twisting was necessary.

#### TEST MUSIC

Buena Vista Social Club Chan Chan/ World Circuit WCD050

Brahms Variations on a Theme by Paganini Op 35: Variation IV – Evgeny Kissin/RCA Victor Red Seal 09026-68910-2

All roads to the river from Janis lan's Breaking silence/Morgan Creek 519614-2

Varese *Dance for Burgess*/Asko Ensemble; Royal Concertgebouw Orchestra/Riccardo Chailly (conductor)/Decca 460 208 2DH2

Various other titles were used in the hands-on tests.



# ONTEST! CDPLAYERS

The sub-£1,000 CD player market can be pretty cut-throat. Which brands are chancing their jugulars for your listening pleasure this month? Alvin Gold and Paul Miller grab the mops.

#### THE CAST LIST

| Cambridge Audio D100       | £120.00 |
|----------------------------|---------|
| Cyrus dAD3 Q24             | £900.00 |
| Denon DCD655               | £180.00 |
| Marantz 6000 OSE           | £299.90 |
| Monrio Asty                | £695.00 |
| Musical Fidelity A3 CD     | £799.00 |
| NAD C540                   | £329.95 |
| Onkyo DX-7222              | £149.95 |
| Roksan Kandy               | £475.00 |
| Sony CDP-XE530             | £139.00 |
| Talk Electronics Thunder 1 | £549.00 |

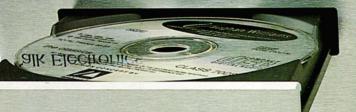
here are three players in this month's CD player test priced within spitting distance of £900 which, if you say it in a particular tone of voice and at just the right pace, could almost be mistaken for real money. The rest cost less, in most cases a lot less, with a

starting point of £120 for a model of restricted availability (the Cambridge Audio D100), and £130 for models available from a cross-section of hi-fi dealers.

The main question that arises with group tests of this kind is: how much should you consider

spending on a CD player? This question immediately suggests another – whether expensive CD players really are substantially better than cheap ones. The introduction of digital electronics is supposed to have injected a touch of democratisation into the

#### Talk Electronics





pause play stop



OPEN













ROKSAN



# LETERS

Hi-Fi Choice's very own 'points of view' page, where you, the reader, can express your opinions!

#### LETTER OF THE MONTH

#### **BORING HI-FI**

I'm a student and have been reading your magazine for the past couple of months. I'm looking to buy a trendy, good value hi-fi system but so far nothing really hits the mark. I currently own a £500 Sony micro system. It's silver, looks great with flashy buttons and has a MiniDisc player, but the sound distorts when played at only a moderately loud volume; parties are a no-no. I'd like to feel more involved in the music that I listen to, but think that the hi-fi systems featured in your magazine are dull and out of my price range. This isn't a direct criticism of *Hi-Fi Choice*, but a dig at the manufacturers who make these black, unattractive, old-fashioned products. Why is it that in a world where technology is changing so rapidly, hi-fi still look so 80s?

Gez, Brighton

The Editor Replies... That's a tough one. You're right, a lot of affordable hi-fi looks pretty dull, and most of the well designed stuff costs an awful lot. However, there are a few exceptions – notably, the silver finish mini systems from Denon, Sony and Pioneer, which are all around the £500 mark. And then there are some genuinely stylish options like the Audio Innovations Alto amplifier of yore and the latest incarnation of the Blue Room Minipod.



SUPER TWEAKER

I refer to the Jimmy Hughes column in issue 196 regarding the addition of a Super Tweeter. May I suggest a further item to assist this worthwhile 'tweak'? Maplin can supply a very well-made strong plastic box, item number MB4, which could have been designed to house the tweeter. All that's required is to cut out the front panel (dimensions are given in the catalogue) to fix the tweeter. I have further filled the interior of the box with some spare Deflex Acoustic Panel which has damped any resonances and added considerable weight to the enclosure. The tweeter sits on the top of a pair of B&W P5s relined with Deflex. I have recently auditioned a pair of speakers costing £2,000 and can confirm the P5s and Super Tweeter combination definitely provides a superior

sound over the more expensive pair. Many thanks to Jimmy and your excellent magazine.

DJ Mason, Newcastle

#### RELIABILITY CORNER

I was delighted to see in the Best Buy issue your mention on the reliability of the Pink Triangle turntable. I think it would be helpful to readers to include some information on product reliability in all reviews – or, better still, a section where readers can write in and share their experiences through the magazine.

My Little Pink Thing turntable has been back to the repair shop so many times it knows its own way! It has produced music for barely one quarter of the time I have owned it.

I've also had experience with three different Sony MiniDisc players, each of which has had a problem with the mechanism that detects when a disc is inserted, resulting in the machine switching itself on or off at random. On the other hand, items such as my Teac CD player and Mission speakers have worked faultlessly for years.

Peter Sanders, via e-mail

The Editor Replies... We get very few letters complaining about reliability problems, and when we do the issue can usually be resolved with a bit of dialogue between buyer and maker/distributor. The key to avoiding difficulty is to buy from reliable dealers, rather than the guy with the best price, then hopefully the dealer can sort problems out for you.

#### IMPROVEMENT FAST

I like Hi-Fi Choice for hi-fi, not DVD. I'm fed up of DVD player tests. Same as What Hi-Fi?. January's Hi-Fi Choice had no hi-fi. Why? Too many ads and too few tests. Let's see hi-fi only. More tests please and news and views. Sorry I got January's Hi-Fi Choice. Let's see a MiniDisc test, small speakers, portable radio and CDs. Let's see this improvement FAST.

Name indecipherable

The Editor Replies... the growing popularity of DVD has lead to players being used for both movies and music, and this has significantly affected the CD player market. So while we are unlikely to look at them from a video perspective, we felt it useful to test their stereo audio quality as well as surround sound capabilities.

As for group tests, this month sees a CD player test with plans for speaker and MiniDisc tests in future issues. DVD, however, will undoubtedly be featured again.

**Blue Room** 

Minipod

#### **SECOND-HAND HI-FI**

I'm not a regular Hi-Fi Choice reader and only pick up a hi-fi magazine when thinking about buying something new. However, I have a suggestion: how about doing an feature on buying second-hand hi-fi gear? I don't know if you've ever written an article like this before, but there appears to be a potentially large market for it, and not just for the enthusiast. For example, if a firsttime buyer, or anyone on a budget, knew what and where to look for quality second-hand gear they may well pick up a hi-fi bargain. There's an informative guide at http://www.tntaudio.com/guide/ sources e.html and a regular feature in your mag may well help a few people down the hi-fi road.

Duncan Towers, via e-mail







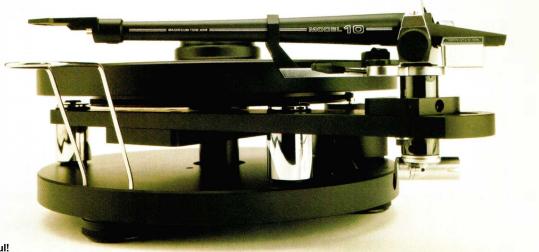
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## DAVID VIVIAN

## David's in the driving seat for a journey back to the best hi-fi systems he's ever heard. And he's taking you with him.

s a doctor of both car and hi-fi journalism, I often get asked the following questions. First, what's the best car you've ever driven? And second, what's the best hi-fi you've ever heard?

The honest answer to the first question is: "Dunno." There's a shortlist with a Ferrari F40, Porsche 911 GT2 and current Mercedes S-class somewhere near the top. I suppose I could rotate. As for the second question, there's a choice of two. The shock (for me, anyway) is that one of them was installed in a red VW Golf GTI 16V I haven't seen for at least five years. The innocuous-looking hot hatch belonged to one Ken Chisholm.

Ken's argument (crusade, even) was that an intelligently designed, carefully

truly omni-directional. Shaninian argues that since all natural sounds are omnidirectional, it makes sense to have a speaker that works in the same way.

The Diapasons were hooked up to a Dynavector HX 1.2 power amp fed by a Naim NAC52 preamp which, in turn, received its signals from either a Naim CDI CD player or a Well Tempered Classic turntable and arm fitted with a Dynavector XX-1 high output moving coil cartridge.

Ken's car system had evolved around the legendary Nakamichi TD1200SE cassette player – even then it cost £1,200 and was made only to special order. It drove a couple of bridged Soundstream MkI amplifiers and beautifully installed KEF KAR 3-way speaker

system via a KDM 30 passive crossover modified to tri-wired operation. American Monster Cable interconnect and speaker cable were used throughout and the Golf's alternator had been up-rated from 60 to 90 amps, running off a beefier 88 amp-hour battery. To look at, it was distinctly "so what?" – neat, low-key, space-efficient. Deceptive. The standard-looking front door panels, for instance, were reinforced with glassfibre to provide a more rigid mounting for the mid-range and tweeter units.

Hearing was believing. The same source material was used for both systems, high quality tapes having been made for the Golf using the Well Tempered Turntable. First up some funky jazz fusion from Steps Ahead. This sounded simply terrific in the Golf, very dynamic yet beautifully integrated with no undue emphasis given to any part of the audio band. Sax in particular came across powerfully with great attack and presence.

Back indoors, the track grew in space and stature on Derek's system – big, expansive, glamorous with a greater sense of stereo and production effects. More treble energy was immediately apparent – occasionally verging on the fierce – but the upper octaves were fabulously well detailed and transparent. In short, the piece sounded funkier in the car, freer and more open in the bouse

Moving on to the blues and John Hammond, Ken's car system again impressed for its immediacy, attack and sheer balls. The mouth organ had breathtaking presence and tangibility, guitar a beautifully warm and natural timbre. Timing was spot on, the music made sense. But the domestic system brought a greater depth and subtlety to the music, sounding more rounded and polished yet, at the same time, endowing the mouth organ with more cut, the guitar greater resolution. Now everything was clear: explicit,

But with Rickey Lee Jones' wonderful Danny's All Star Joint, Ken's system was again in its element. This was real music with startling life and authority. Taut, twangy bass, effortless volume: swung like a good 'un. Derek's system couldn't beat that. Its presentation was more relaxed, didn't swing quite as easily. Which isn't to say it didn't do some things better. It had more mid-range presence and intelligibility, and a more alluring sheen to the treble.

neck-tingling musicianship. The house

edged ahead.

And so the pattern was established. Ken's system was everything he said it would be: fast, rhythmic and musically involving, occasionally to an extent that eclipsed the mega-buck domestic set up. Derek's system, on the other hand, could resolve spatial information beyond the wildest dreams of the Chisholm experience. Both worked beautifully in their environments, both provided exceptional access to the emotional power of music. They were, and continue to be, the best hi-fi I've ever heard.

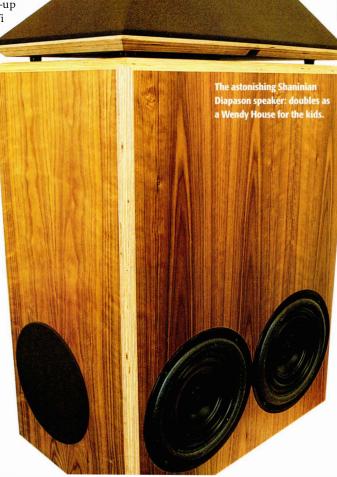
# "To see if Ken Chisholm had a point about in-car hi-fi, we drove round to hi-fi hedonist Derek Whittington's home for a somewhat unusual car versus house showdown."

matched and properly engineered analogue car system – that's a console-mounted cassette player to you and me, son – could sound just as good as the sort of noholds-barred, cost-no-object, domestic wet-dream set-up only millionaires or hi-fi dealers would ever have access to.

To see if he had a

To see if he had a point, we drove round to hi-fi hedonist and dealer Derek Whittington's house in Loughborough for a somewhat unusual car vs house showdown.

Centrepiece of Derek's "no prisoners" domestic set-up was a pair of astonishing Shaninian Diapason speakers sitting in plenty of free air at one end of his lounge. The technical literature called them "Asymmetric prisms with unequal rakes in each direction constructed from 13-ply Finland birch". Each enclosure had fourteen separate drive units arranged in such a way that their output was



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"Great price, great cable, well made. Nifty name, neat plugs. Five stars . Next..."

#### RUARK Solus £1,200

## Lee Dunkley finds sonic enlightenment in Southend.

ssex-based Ruark Acoustics has been around for 14 years and has produced a variety of interesting designs in that time. Founded by cabinetmaker Brian O'Rourke, the company's aim was to produce speakers that combined the essential elements of exceptional sound quality and stylish design. Today, in what is an extremely competitive market, Ruark is proud that each loudspeaker is individually hand-assembled.

The Solus is a recent introduction marking the entry-level to the four-strong Sterling Reference range. This two-way standmounter, with a cabinet that is 30mm thick in parts, has internal bracing and a sloping front baffle that provides improved time alignment between drivers. Unusually, the 150mm mid/bass driver features ten cuts in its doped paper cone, each filled with a damping compound. Ruark claims this significantly reduces cone resonance, improving the speaker's midband performance. Partnered with an offset 28mm fabric dome tweeter, the Solus is bi-wireable via dual gold-plated terminals. Real-wood veneer finishes are available in natural oak, black oak and natural cherry, while other finishes cost extra.

The purpose-built support is a rigid but curvy, three-pronged tubular affair, mass-loaded with Sound Bytes for acoustic damping. Priced at £350, it is available in 'steel' or 'aluminium' finishes.

#### **SOUND QUALITY**

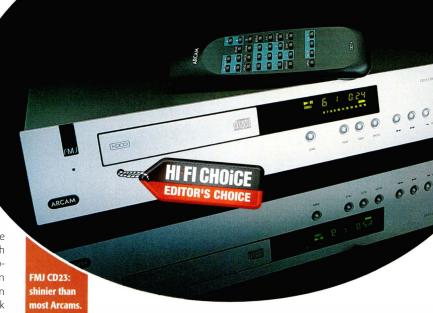
My initial thoughts concerned the Solus' impressive bass depth: Such scale belies the size of its main driver and cabinet dimensions, yet delivers musical, tuneful bass. From classical to dance music, it conveys weight and power with a controlled and well proportioned energy. Even at lower volumes the Solus gives a coherent and balanced delivery, rivalling Ruark's respected and larger Equinox model.

Other notable attributes include a wide stereo spread with convincing instrument placement, and a transparent midband. Further up the scale, high frequency detail has a smooth roll-off, giving the speakers a more rounded characteristic.

At £1,200, the Solus is a luxury standmounter that is definitely a worthy candidate for anyone's shortlist.

#### 00000

Ruark Acoustics 2 (01702) 601410



## **ARCAM FMJ CD23** £1,099.90

## Tim Bowern gets to grips with Arcam's new top-of-the-range CD player.

verybody's at it, sprucing up their black boxes with tasteful trimmings, and seducing the punters with eye-catching aesthetics. Even sound-first stalwart NAD has surrendered to the irresistible pull of a glistening exterior, for its Silverline range. Now Arcam has followed suit, building on existing glories to create its FMJ flagship line.

Despite rumours to the contrary, FMJ doesn't stand for Full Metal Jacket, though it seems likely the acronym sprang from a working title of that kind. Officially, it means anything you want it to. "For Millennium Joy", as the press release would have it, or Feel My Jockstrap if you prefer. Full Metal Jacket is certainly most apt, because the FMJ CD23 is encased in a rather gorgeous metal shell. The top case and front plate are both aluminium, the latter being 8mm thick, and the chassis is made from a vibration-damping steel and polymer laminate. Aesthetic benefits are obvious, but when it comes to performance, the extra rigidity should pay an additional dividend.

Under the lid lies a modified Alpha 9- one of our favourite players for less than £1,000, it has rare addictive qualities, and its dCS-derived Ring DAC and custom-designed chipset are also used here. However, Arcam has been intent on improving it, and has redesigned the motherboard and power supply. A high quality toroidal transformer now supplies the sensitive audio circuitry on the Ring DAC converter board, and the net result is a worthy newcomer to Arcam's range.

#### SOUND QUALITY

Is this the best-sounding player around the £1,000 mark? Well, it may be the one we feel most confident recommending to a broad range of listeners. After all it should slot happily into varied systems and suit most tastes. Yes, it demands high quality partnering equipment, but it's less particular than some of its more esoteric rivals.

Like the player on which it's based, the FMJ's strength lies not in any particularly striking quality. Rather, it is a collection of near-ideals that add up to a wholly satisfying listening experience, full of substance and charm. Its allure becomes stronger over time; its ability to extract ambient detail is a subtle quality you'll soon find you can't live without. Some may question its value for money compared with the Alpha 9; a £300 premium is a lot to pay for marginal improvements in performance. But if people are spending a substantial sum, they like to see some return, as well as hear it, and the CD23 delivers on both counts. Expect a full group test soon. And next month, the Alpha 10-based FMJ A22 takes part in our amp Super Test.

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Arcam 🕿 (01223) 203203



#### **HEAT SEEKERS**

#### ENERGY e:XL26 £600

Tim Bowern checks out a name that's new to the UK.

eard of Energy? Thought not. The marque is effectively new to these shores, its occasional presence having evaporated some years back. However, its Canadian manufacturer, API, is one of the largest in the world, its brands selling truckloads throughout North America. API believes there are pickings to be had in the saturated UK speaker market, and has joined the growing procession in-bound from abroad.

The e:XL26 is second-from-top in Energy's entry-level e:XL Series. It is a 91.4cm tall floorstander with a well-proportioned MDF cabinet and a striking, bulging baffle. This latter part employs a low-resonance composite copolymer, and supports a 19mm metal dome tweeter and twin 165mm mid/bass drivers with polypropylene cones.

If multi-channel is part of your equation, either short or long-term, the e:XL range includes matching rear and centre speakers, and all models are magnetically shielded for use close to a TV. As for finish, the '26 comes in either black ash or light birch (as pictured).

#### **SOUND QUALITY**

This speaker is enthusiastic enough, as one would hope given the name. Its performance is characterised by lively treble and solid upper bass, but tone is a little toppy and midrange rather reticent, lacking consistency across a range of music. Partnered with sweet sounding source and amp, and fed on a diet of acoustic-style music, you may feel it outperforms its price point; strummed guitar sounds are sharp and alert, bass drums kick with authority. It pretty much hits the spot with dance music too, a slice of Seb Fontaine sounded suitably beefy on test, delivered at high volume without undue stress.

But with some music, a rather bright and boxy nature comes to the fore. Powerful female vocals sound pinched – Maria McKee gained something of a Mini Mouse infection – and it lacks the effortless sweetness of tone to suit classical fans. Outwardly, Tchaikovsky's Fifth may not be the most demanding piece, but its swathes of strings are tricky to reproduce naturally. Here they sounded rather too reedy, and the brass too piercing. Elsewhere, a few loungecore tracks by the Beastie Boys highlighted both highs and lows with good snap and dynamic tension, but fizzy cymbals and congested bass spoiled the party.

There's enough here to gather interest, if not full recommendation at £600. But check out next issue's loudspeaker Mega Test; the e:XL25 is included, which is essentially the same speaker with slightly smaller cabinet and drivers for just £400.

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## SENNHEISER

HD 590 Prestige £160

Lee Dunkley settles down with Sennheiser's flagship headphones.

ennheiser is one of the world's best known and respected headphone manufacturers. The German company, which introduced the first open-backed headphones in the late 1960s, has a history spanning some five decades.

Open-back 'phones give a more spacious, 'out of the head' stereo experience, but allow sound to escape from the back of the diaphragm, and be heard by the outside world. This might be irritating to people nearby, but you'll still be able to hear the telephone ring.

A new addition to the company's 5 Series, the HD 590 Prestige is touted as the flagship of the range, being geared towards the more discerning listener. Its spec includes a new generation Duofol transducer with Neodym-Iron magnets and lightweight 18mm aluminium voice coils, combining to give spacious sound with a neutral balance.

Constructed from lightweight moulded plastic, its circumaural ear pads consist of oval-shaped ear-pieces with luxurious velour roll-cushions which sit snugly around the ear. The phones feel reasonably lightweight and comfortable on the head, with the padded single headband aiding distribution of their 270g weight. Even during prolonged listening sessions, the phones remain comfortable and unobtrusive, making those escapist trips to a musical world of your own long and pleasurable.

The single-sided three metre detachable cable provides ample freedom for movement and the ability to listen to TV from the sofa. The cable has a 3.5mm jack plug with a 6.3mm adaptor.

#### **SOUND QUALITY**

As you'd expect, the HD 590s give a good sense of spacious stereo, and a sound that can probably be termed classic Sennheiser. Bass is particularly well extended and controlled, conveying classical pieces with a sense of depth and heart-felt passion. Fast, rhythmic tracks also fair favourably, giving pumping tunes all the power and energy of the dance floor with plenty of head-nodding, foot-tapping rhythm. Vocals, however, seemed to lack a sense of naturalness and transparency, sounding veiled and synthetic at times, while the detailed treble occasionally drew attention to a recording's shortcomings.

The Sennheiser HD 590s offer outstanding comfort and listening pleasure, but may ultimately appeal to those who prefer a more laid-back sound.

#### 00000

Sennheiser 2 (01494) 551571



gather every model then available in a particular component category, and test them all against the same closely defined objective criteria and subjective listening conditions.

I don't know how many copies of those early editions were actually bought by consumers - distribution was a headache for a new, small title with an irregular publishing schedule, and the cover price was at least twice that of the regular monthly mags. But I do know they had an enormous influence through the trade. Dealers were desperate for the sort of comparative data that only Choice could supply.

I was working at Hi-Fi News when those earliest issues came out - we treated them as books rather than magazines, carrying reviews of them in our mag. Those A5 Choices may have carried ads, but they had much more the feel of books because each was devoted to one specific component in the hi-fi chain, and to covering its ins and outs in unparalleled depth.

A new edition of Choice was a notable event, and when the first ever Loudspeakers edition appeared on the eve of the 1976 Harrogate show, its findings were a major topic of conversation. To add spice, there was a lawsuit in the offing, instigated by a manufacturer who disliked having his speaker's sonics compared with a waste receptacle.

I joined Choice as editor (and everything else) sometime around issue 9, replacing Sally Peberdy. (That's as specific as you can get with a title that appeared four or five times a year, each edition taking six months from planning to publication.)

I still feel nostalgic for those topic-oriented, pocket-size Hi-Fi Choices, and I know many other enthusiasts also miss their comprehensive

and focused approach. They offered an unequalled breadth of perspective across each market sector, the large group creating a valid average against which any individual model could be compared. And each project was big enough to support some research into developing radical test techniques.

The 'book' format was a unique strength of the title, but also a major handicap. For one thing, the pages were too small for many potential advertisers' existing ads. Each edition was supposed to remain current for at least a year, yet didn't fit comfortably on newsagents' shelves, so proper distribution was always a headache.

The Choice offices were then in Rathbone Place, just round the corner from Tottenham Court Road - a mecca for hi-fi buyers in the '70s and '80s. There was an excellent newsagent at the corner of the road, known locally as The Tobacco Boys, and Felix Dennis always made sure they carried the full range of Choice titles, which they in turn sold in large numbers to passing hi-fi customers.

I left Choice around 1983, but returned three years later, in time to orchestrate the change into the full size monthly magazine you hold today. It all happened at the end of 1987, and I recall doggedly typing the original Directory entries into a laptop for most of two long-haul flights to Tokyo and back. It was while we were staffing up for the new monthly Choice that current editor Jason Kennedy joined the team.

The bigger, brighter, faster Choice was a big break with tradition, but it didn't cut all its links with the past. Choice always opted for concise reviews with maximum fac-

> tual content and minimal padding, plus a strong measurement backup, and this agenda carried through. Martin Colloms continued to lead the reviewing team, with Alvin Gold, while I took on loudspeaker reviewing when John Bamford took the helm as editor

> > during 1988.

## JK'S VERY BRIEF HISTORY OF TIME

wenty five years is a mighty long time in hi-fi publishing, and as you can see from our time line (below), a few seminal events have come to pass over the years - not to mention a lot of superb products. Selecting products for this list proved a far greater task than I had anticipated: 200 issues take an awful lot of trawling, and I managed to think of a lot of products that I couldn't track down. Putting dates to them was a nightmare, too. In the end, rather than try to pinpoint the year that each product appeared, I have put each down in the year that it was reviewed in Hi-Fi Choice. In some cases - the Spendor BC1 and B&W Nautilus come to mind - that was some time after the product's inauguration, but usually the the gap was reasonably slim.

There are inevitably a lot of omissions in the list; I couldn't track down my first piece on the Mana table, nor find the first example of a Roksan Xerxes review. Clearly we could do with a good database around here!

This list is also quite a personal one. Inevitably there are products that others might feel to be essential but which never made a great impression, and conversely some on the list that you won't have heard of. Individual products from certain brands are difficult to pin down, Arcam being the best example. It has made a lot of great kit in its time, but picking the key product is virtually impossible. Still, I've found more than a few great names and hopefully they'll bring back some fond memories.

| /EAR | LANDMARK  | YEAR | LANDMARK  |
|------|---|------|---|
| 1976 | Spendor BC1 £257, issue 3                             | 1990 | Townshend Rock Reference £1,800,                                  |
|      | Yamaha NS100M £525, issue 3                           |      | issue 79  |
|      | Sony Elcaset, BBC LS3/5A                              |      | Audio Note Ongaku £29,950,  |
| 1977 | Linn LP12 £231, issue 5                               |      | Collection 90   |
|      | Technics SP10 £760, issue 5                           |      | Voyd Reference £5,414, Collection 90                              |
|      | Thorens TD160 £88, issue 5                            |      | Naim NAC52 £4,249, issue 83                                       |
|      | Soft dome tweeters                                    | 1991 | Epos ES14 £475, issue 98  |
| 1978 | Revox B760 £520, issue 9                              |      | Rotel RCD-965BX £300, issue 100                                   |
|      | KEF R105 £785, issue 10                               |      | Audio Note AN-E £1,300, issue 106                                 |
| 1979 | Supex SD900E Super £124, issue 13                     |      | DCC & MD launched,  |
|      | Mission 770 £350, issue 15                            |      | 100th issue of HFC  |
|      | Sony Walkman, Hitachi MOSFET                          | 1992 | Lasaway green pen £10, issue 104                                  |
|      | transistors   |      | Michell Iso £393, issue 107                                       |
| 1980 | Dunlop Systemdek £260, issue 18                       |      | CD-R launched   |
|      | Rega Planar 2 £99, issue 18                           | 1993 | Mission 753 £600, issue 114                                       |
|      | NAD 3020 £86, issue 19                                |      | Living Voice Air Partner £12,000,                                 |
|      | Metal dome tweeters                                   |      | issue 117   |
| 1981 | Nakamichi 100ZXL £1,275, issue 22                     |      | TDL RTL3 £412, issue 126  |
|      | Pink Triangle TT £300, issue 24                       |      | SME Model 20A £4,000, issue 118                                   |
| 1982 | Stax Lambda £175, issue 28                            |      | Pioneer PD-S901 £470, issue 119                                   |
|      | Koetsu Black £345, issue 28                           | 1994 | Rotel RA830BX £200, issue 134                                     |
|      | CD launched   |      | Wilson benesch ACT 1 £999, issue 134                              |
| 1983 | Michell Gyrodec £595, issue 30                        |      | Electrofluidics Monolith  |
|      | Quad ESL-63 £1,150, issue 31                          |      | 20/20 cable £25/m, issue 142                                      |
|      | Celestion SL600 £599, issue 31                        |      | HDCD launched, HFC EAR  |
|      | Nakamichi Dragon £1,100, issue 32                     |      | supplements   |
|      | Sony PCM-F1, issue 32                                 | 1995 | Copland CSA14 £999, issue 139                                     |
|      | Sony WM-D6 Walkman Pro £200,                          |      | Sony CDP-915E £300, issue 141                                     |
|      | issue 32  |      | DNM Rota 2 £4,800, issue 144                                      |
|      | Krell KSA-50 £1,250, issue 33                         | 1996 | Pioneer PD-R05 £1,300, issue 152                                  |
|      | Naim Nait £180, issue 33                              |      | Densen Beat £600, issue 154                                       |
|      | The arrival of the spike                              |      | Pioneer A300R Precision £400,                                     |
| 1984 | Sony CDP-701es £890, issue 35                         | 1007 | issue 159   |
| 1985 | Rega RB300 £90, issue 35<br>Naim NAT01 £900, issue 39 | 1997 | B&W Nautilus c.£35,000, issue 166                                 |
| 1986 | Arcam Alpha amp £130, issue 44                        |      | Arcam Alpha 9 £500, issue 168<br>Goertz M1 £20/m cable, issue 168 |
| 1900 | Musical Fidelity A1 £209, issue 44                    |      | Marantz PM66 KI Signature £400,                                   |
|      | Meridian Pro MCD £675, issue 45                       |      | issue 168   |
|      | DNM 3A £1,000, issue 44                               |      | Tannoy Mercury M2 £140, issue 169                                 |
|      | DAT launched  |      | DVD launched  |
| 1987 | Naim NAT 01 £1,098, issue 50                          | 1998 | Nagra P-LP £7,500, issue 178                                      |
| 1907 | Akai GX-6 £350, issue 52                              | 1990 | B&W Nautilus 802 £6,000, issue 183                                |
|      | JPW AP2 £145, issue 53                                |      | Rotel RCD-971 £350, issue 184                                     |
|      | Hi-Fi Choice A4 relaunch                              |      | Sony SCD-1 £2,500, issue 184                                      |
| 1988 | Ortofon MC3000 £800, issue 60                         |      | MP3 & SACD launched,  |
| .500 | SME Model V £1,138, issue 60                          | 1999 | Arcam Alpha 10 DRT £800, issue 188                                |
|      | Pink Triangle PIP £2,670, issue 62                    | 1333 | Naim CDSII/XPS £5,625, issue188                                   |
| 1989 | Sony MDR-R10 £2,500, issue 72                         | 2000 | Wadia 860x £7,500, issue 199                                      |
|      | Audio Research SP9 £1,698, issue 72                   |      | DVD-A launch?   |

## **TALK ELECTRONICS** Thunder 1



using more sophisticated power supplies and filters. But there have been other changes to the basic chassis which is now manufactured in a much more fetching bright metal finish, with improved controls and more modern panel graphics.

The player still feels a little lightweight, but at least it now looks and handles like a thoroughly professional product, without the slightly flaky feel of earlier versions - although the drawer mechanism is distinctly wheezy. Maybe it's a winter thing.

From the user point of view, the story is a simple one. A single row of controls on the front panel accesses the basic play modes, which in this case includes switching to dim the display or turn it off completely, and to select alternative display readouts. The chassis is all aluminium rather than steel, which was decided on for sound quality reasons, aluminium being non-magnetic.

The D/A converter is the Crystal CS4390, a nominally 24-bit part, with a six-pole analogue filter opamp to reduce out-of-band noise as sharply as possible, where more costly Thunder series players | fitted at extra cost.

#### "The player still feels a little lightweight, but at least it now looks and handles like a thoroughly professional product."

employ gentler acting, discrete two-pole filters. This change was made to ensure that the player makes the most of inexpensive amplifiers which are not necessarily able to cope with out-ofaudioband noise as gracefully as more costly designs. A slight reduction in very high frequency output is one side-effect deemed acceptable for the same reason.

The Thunder 1 also features a different transformer with reduced regulation compared with its stablemates. In common with other Talk Electronics players, the Thunder 1 is upgradable with outboard power supplies at extra cost. It's also available in black with silver panel graphics ("very Mark Levinson", as it was described) at the same price. The rear panel is all promise, and little delivery, with blanked off holes instead of digital outputs, although one can be

#### **SOUND QUALITY**

The sharp out-of-band filtering, and possible in-band group delay, may have been responsible for the fairly consistent observation that this player has an "edgy" upper register, with evidence of "HF ringing" and of "cloudy" voices (Janis Ian especially).

There was also some positive reaction to this model, with one panellist remarking that the Buena Vista Social Club track was "powerful, lively... and quite involving", and from another who described the excellent Kissin piano recording as "fluid", although he also remarked on a lack of sparkle in the playing, an observation that fits in well with the consensus.

Overall, this player can only be described as good in parts. Although the bass showed real signs of grip and a solid, propulsive sense of timing, the midband and treble areas were clearly a

little muted, and there was some evidence of a loss of fine detail resolution – apparent, for example, is a lack of any coherent sense of ambience from appropriately recorded discs.

#### CONCLUSION

The stripped-down Thunder 1 is better built than earlier models. and it can be enhanced with outboard power supplies, but this may not be enough to address what appear to be some fundamental limitations that have a detrimental effect on clarity and transparency.



stripped-down Thunder model is designed to extract the most from realworld ancillaries, but given the price the limitations are just too severe.

#### **■ THREE YEAR GUARANTEE**

☑ Talk Electronics, Unit J, Albany Park, Camberley, Surrey G15 2PL **2** (07747) 011107

#### THE LAB REPORT

uch of the technical flavour of Talk's costlier CD players is retained in this 'budget' Thunder 1. Crystal's so-called 24bit CS4390 DAC still takes pride of place, but there are some slight compromises in its performance here. Jitter, for example, is up from the 200psec or so that's expected to 330psec, thanks to a number of power supply-related

effects. Indeed. the Thunder 1's power supply is slightly less robust

than that of its cousins, which probably explains this egress of 100Hz ripple.

The player's S/N ratio is also fractionally down at 100dB (A-wtd) but still well within CD's 16-bit remit. It's as well to remember that the '24-bit' claim refers to

the capacity of the DAC to handle long digital words, and not the dynamic range achieved in practice.

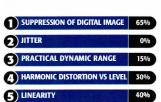
Talk has kept its proprietary, multi-pole analogue filter stage, but implemented it with IC op-amps rather than discrete components. While the nature of the filter is unchanged - successfully suppressing the ultrasonic noise

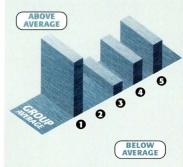
ejected by the DAC's noise-shapers harmonic

distortion is increased slightly from 0.01 to 0.02 per cent at HF. Otherwise, the 2.2V output level, the acceptable +/-0.5dB errors in linearity (over a 100dB range) and imperceptible -0.2dB treble cut are all pretty much par for the course.

#### **HOW IT COMPARES**

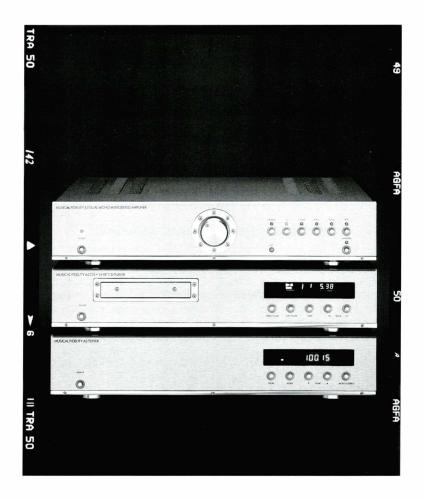
ooks and feels just like the costlier Talk CD players but a simpler power supply and analogue output stage keep costs down without impacting too heavily on technical performance.





| SPECIFICATIONS            |                   |              |  |
|---------------------------|-------------------|--------------|--|
| PARAMETER                 | MANUFACTR'S SPEC. | ACTUAL SPEC. |  |
| ■ Distortion @ 1kHz/0dBFs | <0.005%           | 0.001%       |  |
| ■ Maximum output level    | 2.0V              | 2.2V         |  |
| ■ A-wtd S/N ratio         | 100dB             | 100.1 dB     |  |
|                           | 14 1 2            |              |  |

March 2000 HI-FI CHOICE 33



#### A3 RANGE.

MACHINED, MIL-SPEC ALUMINIUM FRONT PANEL.

TWENTY-FOUR CARAT GOLD PLATED FITTINGS.

REMOTE CONTROLLED.

PHONO STAGE.

Powerful, robust, built.

CYRUS

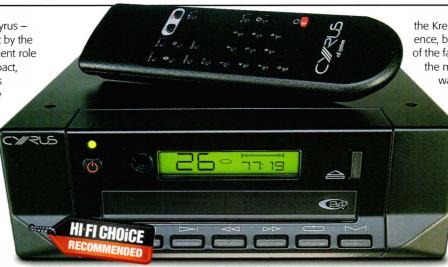
## CYRUS dAD 3 Q24

ecent changes at Cyrus – caused in large part by the increasingly prominent role of NXT – have had an impact, initially diverting resources from the former, but lately Cyrus has been reverting to form. At least, that was the case with the dAD 1.5 we reviewed recently, but is it still the case with the more costly dAD3Q, tested here with the newly developed internal Q24 module?

The original dAD3 featured twin mono 18-bit converters, which have been replaced here by a 24-bit integrated filter/DAC (which signals the ability to read 24-bit data from the noise shaping digital 8x oversampling filter without truncation errors), with a relatively high order. four-pole output analogue filter for attenuating out of band images.

The design also includes extensive anti-iitter measures, including a regenerated clock near the DAC. Elaborate power supply arrangements include nine regulated supplies within the player, plus two in the Q24 module. The player can also be upgraded with an external add-on supply, the PSX-R, which was not tried here.

The player can be plumbed into a Cyrus system using system link (MC-BUS) terminals. Features are fairly basic, except that absolute phase is controllable and even programmable on a track-by-track basis, and the only digital output is from an optical TOSLINK socket. That's good news for personal



#### "Even taking account of the fact that this player was the most expensive on test, it was a consistently impressive performer."

MiniDisc recorder users, but less welcome for those who want the lowest possible jitter output.

The player comes in the familiar simplified version of the Cyrus diecast housing, with an ABS moulded base, and the standard, rather artless, Cyrus full-feature remote control.

#### SOUND QUALITY

The dAD 3 Q24 received consistently strong comments in three separate presentations to the panel. It was described with impressive unanimity as being sharp and analytical, with an almost master tape-like solidity and presence, and a positive, well timed bass.

The piano recording "comes

through in a realistic way," and the Janis lan track was "(again) reproduced with a strong studio-like presence... it's well paced, with good detail, and this player could be listened to for as long as you like without becoming tiring".

The powerful Buena Vista Social Club track was described as having a "strong bass that drives the music well", and by another as "dry and analytical". There was some criticism of the treble, which was sometimes felt to be brittle; "perhaps a trace of sheen" as one put it, although he tempered his comments by noting that the high frequency presentation was "smooth and even".

The Cyrus also clearly lacked the expansiveness and range of

the Krell player used for reference, but even taking account of the fact that this player was the most expensive on test, it was a consistently impressive performer that

served a wide range of music well, both in the panel sessions and the separate, sighted listening tests.

#### CONCLUSION

This is a sharp, analytical player, with a treble that can sound rather aggressive in the

wrong system, and with a lack of warmth that again demands sympathetic system balancing. However, its resolving power, stability and consistency make this a safe recommendation overall, and the ability to upgrade (and presumably improve) the player further with the PSX power supply makes it an attractive long term proposition. Pity about the lack of a digital electrical output, though.



the right one.

#### ■ ONE YEAR GUARANTEE

☑ Cyrus, Stonehill, Huntingdon, Cambridgeshire PE18 6ED **2** (01480) 451777

#### THE LAB REPORT

Never let it be said that here at *Hi-Fi Choice* we don't respond to genuine improvements made to existing kit, especially when we were the ones to point out the shortcomings in the first place! So it is with Cyrus' dAD3 CD player, whose rela-

tively high noise, litter and distortion was remarked upon in HFC 163. The dAD3Q upgrade proved significant (HFC 169) and this dAD 3 Q24, takes the concept another stage fur-

ther with the addition of a 24-bit Burr-Brown PCM1716 DAC. Jitter is now reduced to just 160psec of datainduced patterns, which is just 20psec shy of state-of-the-art. Distortion, too, is incredibly low at just 0.0005 per cent

through bass and midrange and just 0.007 per cent at 20kHz. Putting this into context, the NAD C540 (which uses the same DAC) hits 0.035 per cent at 20kHz.

The A-wtd S/N ratio is a few dB behind what is technically possible at 101 dB, but

then this figure represents an ideal compromise between maintaining full 16-bit resolution without exposing lower-level 'digital rubbish'.

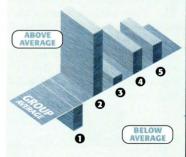
> The response is free of ripple, chan-

nel balance within 0.01dB (0.05dB above 10kHz) and stereo separation better than 100dB - all confirming that the Q24 is leagues ahead of the basic dAD 3. PMi

#### **HOW IT COMPARES**

n excellent implementation of cur A rent '24-bit' technology, combining very low coloration, jitter and pinpoint resolution.





| SPECIFICATIONS          |                   |              |  |
|-------------------------|-------------------|--------------|--|
| PARAMETER               | MANUFACTR'S SPEC. | ACTUAL SPEC. |  |
| Distortion @ 1kHz/0dBFs | <0.003%           | 0.0005%      |  |
| Maximum output level    | 2.1V              | 2.1V         |  |
| A-wtd S/N ratio         | 105dB             | 101dB        |  |
|                         | 1                 |              |  |

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## **MONRIO** Asty



he Monrio Asty is no beauty, but it has a certain presence – even what almost amounts to an attitude. It's solid and heavy, with smoothly rounded corners and a solid slab alloy fascia with a simple, fluorescent display, a slim loading drawer and just four control buttons: open/close, play and two track skips.

The mains on/off switch is on the back adjacent to the IEC mains socket – an encouragement to leave the player switched on when not in use – and there are three sockets, an electrical digital S/PDIF output and a pair of analogue outputs. If you want to get any more 'up close and personal' than the basic front panel buttons allow, you'll need to refer to the remote control.

Monrio is a specialist high-end producer of amplifiers and other components and is based in Piacenza, Italy. The Asty CD is the obvious partner for the Asty amp, and a little downmarket of the Privilege CD player (issues 166 and 178 respectively).

This Asty CD employs a '24-bit' Delta Sigma D/A converter (the

#### "The overall picture was of a player with a full tonality, not lacking in treble presence or detail, and with a strong muscularity."

24-bit description comes with the usual health warning), and has entirely separate transformers for the analogue and digital circuits, each with multiple regulation for individual stages, including six shunt regulators for the output buffers and amplifiers, and capacitors and resistors in critical circuit areas chosen (it says here) following extensive listening tests. About all that has been forgotten, it seems, is a properly designed master clock anywhere near the D/A converter stage.

#### SOUND QUALITY

A puzzle indeed. I have a fair (but by no means perfect) sense of pitch, and could reliably detect a speed error with some material – in a Bach *Brandenburg Concerto*, for example, but not in a Mahler symphony predominantly scored for lower pitch instruments. Others may find the effect more obvious, but it's worth noting that larger errors are routine with non-digital sources. Still, one listener concluded that the music was "in too much of a hurry" (Kissin), but this was the only comment that could be directly related to pitch.

In other respects, the Asty had strong characteristics, some very attractive. "Positive and surefooted," and "sprightly and energetic" (Buena Vista), and "plays music with a fluid push" (Kissin) were typical. The most succinct comment was "piano forte", which really deserves some kind of prize.

The overall picture, then, was of a player with a full tonality, not lacking in treble presence or detail, and with a strong muscularity. These findings emerged from the hands-on testing too. Where the player fell down was in the upper midband and treble, which were

curiously ill-separated: fine detail tended to be homogenised or lost, and image scale became too expansive and defocused.

#### CONCLUSION

One listener concluded the Asty was a "powerful sounding player that appears to have a wide bandwidth but little drama, and an inability to sort out difficult detail", and that's about right. It is by no means untalented in its own way, and its bass and lower midband were particularly strong, but it needs more balance — and preferably, a more accurate clock. AG



mid/top which lacks analysis, and a peculiar internal topology that allows it to run fast.

#### ■ TWO YEAR GUARANTEE

☑ UKD, 23 Richings Way, Iver, Bucks SLO 9DA ② (01753) 652669

#### THE LAB REPORT

This is an exceptional example of how one simple mistake can floor a CD player. On the face of it, the Asty offers a vanishingly low 0.0006 per cent distortion, a smooth -1.1dB treble roll-off and an acceptable 99dB S/N ratio, none of which the vast 5 higher the 115Hz shi increase in remarks of the vast 5 higher the

acceptable 99dB S/N ratio, none of which suggest a hint of trouble (Monrio's claimed 112dB can only be a c h i e v e d

a chi e v e d
with digital
muting).
The inter-

nal design is customised around a Crystal CS4390 DAC using full-sized rather than surface-mount components. Strangely, I couldn't see a local crystal reference and can only assume it is taking a clock feed from the (Philips) transport PCB instead. If so, this is a very bad idea and would explain

the vast 5,750ppm clock error. This is 100x higher than normal and equivalent to a 115Hz shift at 20kHz or a +0.6 per cent increase in pitch, and ties in with the panel's remarks concerning musical tempo.

Moreover, with a 'vague' clock reference, jitter also escalates to an equally

vast 5,555psec of low-rate patterns, correlating perfectly

with remarks concerning the player's poor stereo imagery.

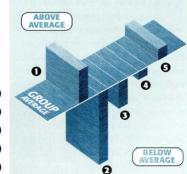
So, even though the player looks to conform to specification (low distortion, noise, good linearity etc), in practice it is colorations in the time domain that utterly dominate its performance.

PMi

#### **HOW IT COMPARES**

ow distortion, to be sure, but the huge clock error and jitter swamp any possible chance this player might have had in the open market.





#### 

### **MUSICAL FIDELITY** A3

he A series runs in parallel with the X-series, with virtually identical internals. the only differences being those due to MUSICAL FIDELITY A3 CD • 24 BIT CD PLAYER the change in form factor. Specifically, the A3 CD is modelled on the X-Ray. So why the new range? The 0 answer is that not everyone likes the rather radical/bizarre-looking

alternative It has been designed with the kind of tactile and visual quality attributes deemed necessary in other markets, especially the Far East. Hence the use of thicker than usual chassis sections, fastened with Torx connectors to

discourage casual vandalism.

(delete as applicable) X-series,

and the A series is the non-radical

The quality image is reinforced by a thick-section, brushed-alloy extruded front panel, with goldplated brass trim along the bottom edge and around the loading drawer, and by the use of high quality phono connectors for the analogue and electrical digital S/PDIF digital output, which supplements the only remaining audio connector, an optical Toslink digital output.

The front panel controls are equipped with damped alloy buttons. The player feels solid and well put together, and the Sony mechanism offers reliability benefits over some of the alternatives. It was interesting to note that the mechanism was mechanically quieter than a previously examined sample of the same player.

### "This is an extremely well sorted player – probably the most consistent and often the best-sounding player in the group."

The A3 CD player is driven by a Burr-Brown PCM 1728 Delta Sigma DAC, which is capable of reading 24-bit wordlength data from the 8x oversampling filter. The five-pole output (analogue) filter is said to be linear phase, and jitter reduction measures have been given priority.

### SOUND QUALITY

"Lively and the bass bounces along, while the vocals are sweet sounding, but a little soft," said one of the Janis Ian track, using a word - soft - that appeared consistently throughout the panel's listening sessions.

"A great sense of scale and detail," was a typical response to the Buena Vista Social Club recording. "The guitar sound is convincing, the bass strong and the overall portrayal authentic."

Others pointed to the A3's good timing, and vocal quality and

instrumental tonality were explicitly praised. But again, descriptions such as "soft", "mellifluous" and "sweet" made slightly too regular appearances.

This is a common criticism of at least some Musical Fidelity components, and one that the manufacturer is sensitive to, pointing out that the lack of HF emphasis is, in fact, a demonstration of the superiority of its designs. I tend to side with the panel on this one: the A3 CD can indeed sound a touch less than industrial-strength at times, with a loss of brilliance and air that the very best CD players can bring to the party.

In every other respect, however, this is an extremely well sorted player – and, incidentally, probably the most consistent and often the best-sounding player in the group. Here it was rivalled only by the Cyrus dAD 3 Q24 (see p35), largely because it was effectively

transparent, meaning it is difficult to describe the sound of the player itself in any great detail separately from the music. This, of course, is one of the best definitions of good high fidelity.

### CONCLUSION

Despite a certain lack of sparkle, the A3 CD is a very strong midprice player. It works consistently well in a wide range of systems, is largely free of identifiable colorations, does not underplay musical dynamics, and offers particularly believable and well anchored soundstaging. AG



### **■ FIVE YEAR GUARANTEE**

Musical Fidelity, 15/16 Olympic Trading Estate, Fulton Rd, Wembley HA9 0TF ☎ (020) 8900 2999

### THE LAB REPORT

usical Fidelity has had great success with CD players based on Burr-Brown's '24-bit' PCM1716 DAC (see X-Ray and E624. HFC 184 and HFC 188 respectively) and seems set to continue the tradition here.

**Importantly** the A3 CD enjoys exceptionally low levels of iitter

(just 130psec), a good

80dB suppression of digital images, a low 0.002 per cent distortion (re. -30dBFs) and a wide - perhaps too wide - 107dB S/N ratio. Remember, CD's 16-bit code can only accommodate about 96dB of dynamic range, so a 'window' in excess of this may also expose digital distortions.

On the other hand, errors in low-level linearity are minimised (just +0.0/-0.4dB over a 100dB range) while distortion remains below 0.003 per cent even up to 20kHz at peak level (0dBFs). Talking of which, the A3CD's 2.3V

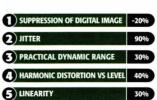
> output level is some +0.6dB over the nominal 2V standard. So. even

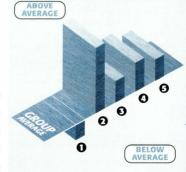
though you should beware of unmatched A/B demos, at least the player's low 50 Ohm source impedance helps it drive all but the oddest interconnect/amp combinations with impunity.

By any standards, the technical performance of the A3CD is up with the very best that's available

### **HOW IT COMPARES**

nother (largely aesthetic) varia-Ation, on an established and well proven theme. No technical gremlins to muddy the digital waters here.





| SPECIFICATIONS            |                   |              |  |  |  |
|---------------------------|-------------------|--------------|--|--|--|
| PARAMETER                 | MANUFACTR'S SPEC. | ACTUAL SPEC. |  |  |  |
| ■ Distortion @ 1kHz/0dBFs | <0.006%           | 0.0025%      |  |  |  |
| ■ Maximum output level    | 2.0V              | 2.3V         |  |  |  |
| ■ A-wtd S/N ratio         | >105dB            | 107.2dB      |  |  |  |

March 2000 HI-FI CHOICE 37





# **PLAYERS** NCLUSIONS

### THE BEST IN THE

### **BEST BUY**

MARANTZ 6000 OSE £299.90

This is no departure from the familiar Marantz pattern: if you're looking for one feature that sets it apart, it's the price. At £500 it'd probably pass unnoticed, but at £300, it's clearly remarkable value for money. The player doesn't sound quite as good as it looks, but comes close enough.



### **BEST BUY MUSICAL FIDELITY**

A3 CD player £799.00 MF has worked hard over the past few years, and the A3 CD player shows how far it's come.

Musically, its cool refinement and transparency allow it to almost grow under the skin, responding faithfully to the source material with just a suggestion of a loss of edge and upper harmonic richness.





### RECOMMENDED **CYRUS dAD3 Q24 CD £900.00**

The dAD3 isn't new, but this version is. As the name suggests, the Q24 marks a change to a 24-bit (wordlength) processor that also features a new integrated filter and enhanced anti-jitter measures. On the whole there was strong praise for its analytical quality, authority and timing.

### **RECOMMENDED DENON** DCD-655

£180.00

Although the DCD-655 is clearly not aimed at the typical audiophile, the extensive bells and whistles

don't really get in the way too much, and the DCD-655 turns out to be a thoroughly likeable player. It will certainly prove attractive to those who value its powerful operating features.



Here is a budget price player which, unlike some, is also decently built. There were some specific complaints, but on the whole the



TABLE

HI FI CHOICE

**JUSICAL FIDELITY** 

A3 CD

player was quite liked for its open, expansive sound, and its dynamic quality. A recent price cut makes this otherwise rather conventional model a more attractive proposition.

| MAKE  | CAMBRIDGE AUDIO | CYRUS    | DENON   | MARANTZ  | MONRIO  |
|-------|-----------------|----------|---------|----------|---------|
| MODEL | D100            | DAD3 Q24 | DCD-655 | 6000 OSE | ASTY    |
| DDICE | C120.00         | 5000.00  | C100.00 | 500.00   | CCOT 00 |

PLAYER

£799.00 £695.00 00000 00000 00000 00000 00000 SOUND 00000 00000 00000 0000 RIIIID VALUE 0000 0000 GUARANTEE 1 yr 1 yr 2 yrs 2 yrs 2 yrs 5 yrs WEIGHT 4kg 4kg 8.5kg 6kg 3.5kg 5.3kg **DIMENSIONS (HXWXD)** 21.5x7.8x36cm 44x7.3x29.8cm 43x8x31cm 43x8x30cm 43.4x10x28.5cm 44x9.5x40cm HI FI CH

COMPARISON

HI FI CHOICE

### **Alvin Gold sums up the shortcomings of those** players that didn't quite make the grade.

ooking back over the reams of notes generated by the listeners during test, it's clear that this month's group is a little short of being a classic. There are several slightly disappointing models from names associated with what some call speciality audio, or simply names that have had a good track record.

The Monrio Asty, for example, appears to fly in the face of normal design practice in being controlled by a clock that is linked to the transport, which normally plays second fiddle to the one near the DAC. Linking the master clock to the DAC is normally regarded as almost a prerequisite if jitter is to be minimised. The result in this case was not wholly negative, but there were nonetheless significant problems, as the test shows.

Moving on, many of the key design decisions in the Talk Electronics Thunder 1 were specifically taken to complement typical failings in lower cost ancillary components, amplifiers especially. However, there is what looks suspiciously like a fundamental problem here in that, as a specialist producer, Talk hasn't been able to price the Thunder 1 where it really belongs.

The Cambridge Audio D100

### TEST INNOVATOR OF THE YEAR

Our Technical Editor, Paul Miller, has been awarded Test Innovator of the Year by Test magazine, the leading European journal of the test and measurement industry. This gong came in recognition of Paul's Jitter Measurement Suite, as used to test CD players for Hi-Fi Choice.



was an uncharacteristically disappointing offering from a range with some significant successes to its credit, and the built-in upgrade potential can't be enough to overturn such findings. At a similar price, the Sony CDP-XE530 is superbly equipped, being one of the least costly players with CD Text, for example, and with one of the best control systems of any. Musically, though, it is not one of Sony's successes.

The Roksan Kandy and the NAD C540 are both largely satisfactory players that failed to achieve any formal gongs on price grounds, but this in itself should not be enough to rule either out of contention. The Roksan in particular signals a new move by a brand with previously rather purist leanings towards improving the cosmetics of its products. Long may it continue.

### **RIVAL BUYS**

**MERIDIAN** 506 £1.100

Crisp styling makes this design timeless, as well as having great charm and resolving ability. The 506 is supplied with the MSR standalone system remote control.

MARANTZ CD17KI Signature £1,100 Bears the imprimatur of Ken Ishiwata, Marantz's resident technological guru, and offers fabulously refined, articulate sound quality, although perhaps not quite going as far as the edge-ofseat involvement that should be part of the deal.

### SONY CDP-XB930 £300

Like other recent Sonys, this one has a choice of digital filters to help fine-tune the player to the system and the music, but the main reason for buying is its unusually clean, clear and open sound quality.



ROTEL RCD-971 £450 One of the less expensive players with HDCD compatibility. A surprisingly refined and detailed all-round performer, this player underlines the recent turnaround at Rotel.

ARCAM Alpha 9 £800 Player based on dCS Ring DAC converter technology and the Pacific Microsonics HDCD digital filter, the Alpha 9 offers fabulous resolving power and naturalness following early teething problems.

MUSICAL FIDELITY X-Ray £799 Musical, accurate and even refined, but only erratically engaging was our test conclusion on this 24-bit (wordlength), Burr-Brown equipped

player, which is packaged in the stylish/unorthodox (delete according to taste) X-series oval casework.



### BEST BUYS & RECOMMENDATIONS



**BEST BUYS:** Our famous Best Buy swingtag is awarded to hi-fi equipment which offers an excellent standard of performance at an attractive price. Best Buy winners are superb all-round components.



**RECOMMENDED:** Recommended products are first-class audiophile propositions, losing out to Best Buy status only because of a higher price or less competitive overall sound quality.

### **UNDERSTANDING OUR BAR GRAPH MEASUREMENTS**

Behind *Hi-Fi Choice's* unique bar graphs are some of the most advanced measurements made anywhere on the planet. They are provided by our Technical Editor, Paul Miller, using both GPIB-controlled measurement hardware and his own, award-winning, PC-based Virtual Instrument software. Each bar graph value is derived from a weighted statistic of several key measurements and is displayed relative to a notional zero per cent which represents the group average for that particular category.

### THE BAR GRAPHS



### **O** SUPPRESSION OF DIGITAL **IMAGES:** This indicates the effectiveness

of the player's digital filter in removing 'aliasing' or 'stopband' distortions immediately outside of the audio band.

2 JITTER: Any uncertainty in the timing of the digital code produces digital jitter which manifests as an insidious form of distortion during digital-to-analogue conversion. The lower the figure the better.

### S PRACTICAL DYNAMIC RANGE:

This is determined by the player's Signal-to-Noise ratio and to what degree it is compromised by any Noise Modulation occurring under real signal conditions.

### O HARMONIC DISTORTION VS.

LEVEL: This bar chart value is derived from the variation in distortion both with frequency and signal level. The consistency and nature of the distortion also forms part of the equation.

**5 LINEARITY:** Linearity is a measure of the player's low-level resolution. If a signal coded at -80dB emerges from the player at -80.5dB then this represents a deviation in its linearity of 0.5dB.

### PLAYER COMPARISON TABLE C D

| MAKE               | NAD           | ONKYO           | ROKSAN        | SONY       | TALK       |
|--------------------|---------------|-----------------|---------------|------------|------------|
| MODEL              | C540          | DX-7222         | KANDY         | CDP-XE530  | THUNDER 1  |
| PRICE              | £329.90       | £149.95         | £475.00       | £139.00    | £549.00    |
| SOUND              | 00000         | 00000           | 00000         | 00000      | 00000      |
| BUILD              | 00000         | 00000           | 00000         | 00000      | 00000      |
| VALUE              | 00000         | 00000           | 00000         | 00000      | 00000      |
| GUARANTEE          | 1 yr          | 2 yrs           | 2 yrs         | 1 yr       | 3 yrs      |
| WEIGHT             | 4.1kg         | 3.7kg           | 11kg          | 3.4kg      | 6.2kg      |
| DIMENSIONS (HxWxD) | 43.5x7x28.5cm | 43.5x9.1x30.8cm | 43.5x8.5x35cm | 43x11x29cm | 43x10x30cm |
|                    |               | Comme HIELGIDIO |               |            |            |



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The Hifi Shop, Belfast. 01232 327604 Lyric Hifi, Belfast. 01232 381296

Audio Excellence, Swansea. 01792 474608





# 

**Don't know your Arcam from** your Elacs? Let Peter Guthrie sort those hi-fidelity horrors.

### **MODULE MADNESS**



I have a dilemma. I currently own an Arcam Alpha 7 amp and CD player and wish to upgrade. I'm pleased

with my current set up, which is connected to a pair of Sony SS-176E speakers, but want more out of the system and don't really know where to start. I thought of a power amp such as the Alpha 8, but my long-term goal in to upgrade my CD player to an Alpha 9 via the module upgrades and feel I would soon grow out of it. I feel the only match for the 9 CD is the Arcam Alpha 10 amp, but funds won't allow me to buy the lot together. Finally there's the matter of speakers, but I think that Tannoy Revolution R3s would do the job.

Adrian Cope, via e-mail

A lot of Arcam owners don't realise that this option is open to them, so well done on doing your research thoroughly on this one. By simply upgrading modules you get the next player up in the range – just plug and play.

Try listening to the Tannoys, but also bear in mind Dynaudio's Audience 40s (£400). If you're long term goal is a system in the Alpha 9 class, it would be worth investing a bit more in your speakers and going for something like Triangle's very lively and communicative Zephyr IIs (£599).

In terms of your amplifier, the Alpha 10 is excellent and its modular nature lets you add to your hi-fi as budget becomes available, but don't forget that you can still add power amps to your Alpha 8. By adding an Alpha 9P (£400) or even an Alpha 10P (£600), you'll get a far better sound in the long term.



### HIGH PRAISE

Sumiko Blue

Point Special.



My current system consists of a Systemdek IIX900 turntable (with

RB300 arm and Linn K5 cartridge), Harman/Kardon HD-7325 CD player, Audiolab 8000A amplifier, TDL RTL 2 speakers and Cable Talk Talk 3.1 and Monitor 3 cables.

I have about £2,000 to spend on upgrades and, unless other-

wise advised, I think I should go for a new cartridge, CD player and speakers. I'm thinking of a CD player like the Musical Fidelity X-Ray or Meridian 506, what would you advise? I'm open to suggestions on the cartridge and speakers I should choose.

The other problem is that my living room is very long and narrow (about 20ft x 9ft), with high ceilings and lots of corners. I listen to a very wide range of music anything from Mozart to Mötörhead, but mostly artists and styles somewhere in between. Alistair McWilliam, Guildford

Your RTL2s are far from ideal for your room and one of the first upgrades you should make. But try and select the CD player first; the two you've selected are very good and so are the NAD Silverline S500 (£1,100) and Densen Beat B400 (£1,000). Then choose your speakers; have a listen to a pair of Musical Technology Falcons (£577), which should fill your room well, even with the high ceilings. The problem you'll face is making sure the speakers don't get placed in corners or the sound getting lost in some dark area of the room, so try to get a home

demonstration. Source components are always the most important element of a system, so spend as much as you can on the cartridge. We'd go for something like a Sumiko

Blue Point Special (£250) or a Denon DL-304 (£200). That still leaves you with about £200 or so, and your cables could do with an upgrade. We'd go for the Kimber PBJ (£68) or Supra EFF-ISL (£80) for the interconnect, and Kimber 4PR (£90/5m pair) for speaker cable.

### **INCISIVE INVESTMENTS**



I'm replacing my system and would like your comments on my plan. I want

a system that'll be a good longterm investment and would like to include home cinema in my system. The hi-fi should be clear, smooth and slightly soft. I've been listening to Mission 773es and Tannoy Revolution R3s and didn't like the sound much – it was like the box was too small and the sound was trying to get out.

My top choices are the Denon AVC-A1D and a Celestion speaker

Well, it almost seems that you've made your mind up already! Hopefully you saw our multi-channel special in the January issue, when we reviewed the AVC-A1D's brother, the AVC-3300 (£800) and found it excellent. However, perhaps a better buy for your 'lifelong investment' would be Arcam's Alpha 10 DAVE/10P combination (£2,500). Although more expensive, the sound is genuinely 'hi-fi'. The Celestion speakers are very good and should provide the kind of sound you want, but have a listen first to make sure.



### SYSTEMS INTEGRATION

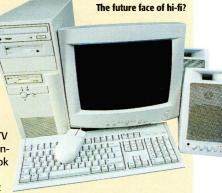


Is it possible to integrate my hi-fi (NVA turntable,

Alpha 10, Musical Fidelity X-LP and Linn Tukans) with my PC? It's a serious question - I'd like to be able to download and play MP3 files from the Net, record audio from the turntable on CD-R and play DVDs on the TV monitor, using the amp to connect it all. Is it possible to hook up like this yet, or do I still need to get lots of boxes that do more or less the same thing, but don't talk to each other? Most importantly, even if I could, would the sound quality be up to it?

David Vaughan-Birch, Devon

Yes, it's possible, but we doubt the sound quality would be much cop. Boxes still don't talk to each other in the way you suggest, although a new 'handshake' protocol called



IEEE 1394 means you will be able to in the near future. To hear the PC through the amp, run a phono cable from the sound card on your computer to your amp and connect it to the CD, Aux or Video input.

You can get a DVD drive for your PC and, provided it has a powerful enough graphics card, you can watch DVD movies on the monitor, with sound directed through to the amp, but quality won't be great.

### KISS OF LIFE



I have an Audiolab 8000A amplifier, Royd The Minstrel speakers

and a 1992 Technics SLPG-400A CD player. The sound lacks life compared with live radio broad-

casts and records.

I recently borrowed a top-of-the-range 1992 Sony CD player and was surprised to hear how similar it sounded to the Technics. I'd like more bass and life, but not a harsher, brighter sound. The cables are homemade OFC cables with gold plated phonos and thick, multi-stranded

OFC speaker cables. I listen to most music except heavy opera and chart music. R Willis, Dorset

Sony CD players of the time were not renowned for their lively reproduction, so it's no surprise it didn't solve that problem. CD players have come a long way since '92, so listen to a few at a reputable store and see how you go. You may find you need to spend more than you want to get the sound you crave, but listen to a Sony CDP-XB930E (£400) or a Rotel RCD-971 (£450) - this will give you more life, detail and bass than the Technics, without nasty fizziness.

### SPACED OUT



I'm looking to replace my now ageing Thorens TD160 turntable with

something a bit more high-end. I've shortlisted the Rega P25, Michell Gyro SE and Nottingham Analogue Spacedeck. In Holland the Michell and Nottingham Analogue are very expensive, but I am coming to the UK soon and I could buy there.

The rest of my system consists of a Pioneer A705R amplifier, Pioneer PD-703 CD player and Tannoy Mercury M3 speakers with van den Hul cables. I recently purchased a Denon DL304 cartridge, so I don't need a new one just yet.

All three turntables you suggest are better than both your old Thorens and the rest of your set-up, but we assume that this is your first step down the upgrade path – a good one at that. You've suggested three great turntables, but we'd probably go down the 'buying the Michell in the UK' route. The Michell Gyro SE (£775) is a fantastic turntable and worthy winner of our Editor's Choice award. You'll also need an arm, and the Rega RB300 (£146) would do a great job. With the Michell, you also get the option of upgrading to the QC power supply (£399), which improves the deck still further.



TINNY TROUBLE

### SUPER DECISIONS



My current equipment includes a Linn Sondek with Lingo, Ekos and

Klyde, a Naim 82 preamp, two Hi-Caps, Naim 160 Power amp and Quad ESL63 speakers, and I'm delighted with it.

However, for CD listening I use a Kenwood DP-7090. Good as it is, there's room for improvement. I've been considering buying a CD player in the £2,000 to £3,000 range, but it appears from your review of the Sony SCD-777ES that I may do better to opt for the newer

The SCD-777ES is a superb player that demonstrates qualities not present in many other CD players at the price. We've heard the Linn player and, while it was very good, it has similar characteristics to the Sony (slightly laid back, but inherently detailed and informative), it's always less so. It's hard to recommend Japanese products over the homegrown variety, particularly at the high end, but the Sony is better as a CD player, and will play SACDs.

The battle between SACD and DVD-A may yield a casualty, but



My budget system consists of a Sony CDP-XE500 CD player, Denon

PMA-250 amplifier, Tannoy Mercury M1 speakers on sandfilled Atacama SE24 stands, with OED Oudos Silver speaker cable and Ixos 104 interconnects.

While I'm happy with the improvements the Tannoys have brought in bass and midrange, the treble sounds 'tinny' and the overall picture isn't as detailed as I'd like. I suspect my CD player may be to blame and I'm considering an upgrade, perhaps to the Sony XB930E. I may also look at changing my ageing amp.

Would the CD player be money well spent? Do you have any suggestions for a suitable

amp for about £250? My musical tastes include Paul Weller, Green Day and Radiohead.

Dave Saunders, Devon

The Sony CDP-XB930E is an excellent player and would be a sensible choice after the CDP-XE500. Another possibility is Arcam's Alpha 7SE (£349) - both would suit your musical tastes and the rest of the system well. In terms of your amplifier, a good solution would be to follow the one-make system strategy and buy either the Sony TA-FB730R (£199) along with the CDP-XB930E or Arcam's Alpha One (£229) with the Alpha 7SE. If you find your treble "tinny", the latter combination may prove best its top end is a little softer.



Should I trust your judgement and buy one? I note that a new Linn player selling at about £2,000 hasn't yet been reviewed.

Is the SACD versus DVD-Audio battle likely to result in obsolescence for one of the formats? Dermot Rooney, via e-mail

The first of these players are due towards the end of this year, so you may prefer to wait before parting with your cash. In the meantime, keep badgering Sony for an audition - the '777ES is a splendid CD player in its own right, but you should certainly try before you buy.



### **CHAIN LIGHTNING**





I need some advice on a new amp I'm planning to buy. I have Sonus

Faber Electa Speakers on SF Stands, Marantz CD-63 MkII KI-Signature CD player, Rotel RA-935BX II amp, MIT interconnects and Monster speaker cable.

The weak element in the system is obviously the amplifier. I'm now in the position to spend about £2.500 on the system and the Rotel will be the first to go. I was thinking of going for separates and recently heard a Naim combo (NAC 102/NAP 180) which impressed me.

Peter Veeren, The Netherlands

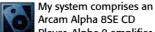
You're right - the Rotel is the weakest link, with the Sonus Fabers way out in the lead, but the Marantz will also need to be changed if you want to go fully down the upgrade route. The big question is whether you'll be able to spend another

£1,000 plus on a source component in the near future, having spent a similar amount on an amp.

While the Marantz CD-63 MkII KI-Signature is a fine player at £400, it can't compete towards the £1,000 mark, let alone those at £2,000. Our advice is often to go for the source first, but in your case we doubt the Rotel's coming close to driving the speakers effectively. You choices are change the amp or change both. The Naim combo will give a supremely dynamic sound and a good choice of upgrades. while easily driving the Sonus Fabers. Audition the Naim in combinations with your speakers, and also try to listen to the Primare A30.1 (£1,499.99) - it should work well with the Electas.

Later, you might like to look at a CD player such as Naim's excellent CDX (£2,000) or take a trip into the future with an SACD players like Sony's SCD-777ES (£1,700).

### **BI-AMP BASS BOOM**



Arcam Alpha 8SE CD Player, Alpha 8 amplifier and Acoustic Energy AE109 speakers connected with Cable Talk 4.1 flat cables. I am biamping the speakers, but find on some recordings, such as John Lee Hooker's Best of Friends CD. the bass is too strong, so I usually reduce the bass on the amplifier. I'm considering upgrading it with the Arcam Alpha 8P power amp. Will this improve the overall performance of the system?

Barry Carter, via e-mail

We suspect that you're bi-wiring rather than bi-amping. Bi-wiring involves sending twin runs of cable from the amplifier to each loudspeaker, attaching separately to high and low frequency terminals. Bi-amping takes this theory one step further, with each drive unit of a single speaker driven by a separate amp channel. Thus, two stereo amps are required.

By adding an Alpha 8P you are moving from bi-wiring to bi-amping. This will improve your overall sound dramatically and significantly tighten up the bass on the AE 109s, if used to drive the bass, but the source of the problem is probably the speakers themselves, AE109s are very bass heavy, so a change to something smoother and more delicate such as AVI's NuNeutrons (£500) would sort out the problem more effectively.



### THE DOCTOR IS IN



I suffer from frequent bouts of upgrade-itis. Replacing the weakest

link in my hi-fi chain always exposes a previously satisfactory item for me to worry over. I don't really want a cure because I

thoroughly enjoy the condition, so I'm writing to seek your help with my latest attack.

Central to my indecision is the following question: given all else is equal, what is best: bi-amping two 75W amps, or tri-amping three 50W amps? If I biamp a tri-ampable speaker, which of the three terminal options do I leave to one of the amps?

The relevant bits of kit are a Shearne Phase 2 Reference amp. Shearne Phase 3 Reference power amp (with a third to be added if triamping), Michell Gyrodec SE with QC

power supply, SME IV arm, Lyra Clavis Da Capo cartridge, EAR 834P phono stage and Ruark Talisman II speakers (to upgrade to Crusader II if tri-amping). David Harris, Surrey

> For the purposes of your query, and all else being equal, tri-amping a triampable speaker would be better using a separate amp channel per drive unit and doing away with crossovers. The only way to make your final decision is to listen for yourself. The upgrade will certainly improve your overall sound, if only because you are upgrading speakers and adding another power amp. You may alternatively be better off spending more on loudspeakers.

Ruark Crusader II.

### IMPEDED BY IMPEDANCE



I want to select an appropriate amplifier for my system. My existing

amp is a Kenwood (I can't remember the model), which doesn't seem able to deliver clean power into my B&W speakers with their four Ohm impedance. The Kenwood's power output is rated at 100 Watts per channel into eight Ohms and as a result the internal distortion (inaudible) almost caused the tweeters to blow. The bottom line is: how do I determine whether an amp is suitable for my speakers?

Dan McGrath, via e-mail

What's (inaudible) internal distortion? It sounds like your amplifier might have some sort of fault.

While proper RMS output ratings

for amplifiers are a good indication of power the real limiting factor is amperage. When Paul Miller lab tests amps under dynamic conditions he finds out what they are genuinely capable of.

As a rule loudspeakers with low actual impedance (6 Ohms or less) and sensitivity (87dB or less) are harder to drive. The art of system building lies in matching the power and character of amps to speakers.

In your case, however, power is unlikely to be the problem. B&W speakers while not the most efficient around are rarely too demanding for a genuine 100 Watt amplifier. And if it's damaging your speakers upgrading to powerhouse like Denon's PMA-1500R might be the best option. But it would be worth seeing if it's fixable first.



### 11101014

### FRENCH CONNECTIONS



I am thinking of buying a Naim CD3.5 and Nait 3R (my budget cannot

extend to a NAC92/NAP90) with the prospect of adding a NAP90 or something more powerful in the future.

The problem is the selection of speakers. I live in Paris and dealers here tend to combine the Naim with B&W and other similar stuff. I have listened to the Naim with B&Ws, mainly the CDM1SE and 7SE. I preferred the CDM1SE as I found it faster,

cleaner and more expressive than the 7SE.

I'm thinking of going with the CDM1SE as my listening room is not enormous and I like the 'intimate' sound of smaller speakers. But I've heard that Naim equipment also works well with Epos and ProAc speakers. I listen to a range of music, but mostly modern jazz and vocals, and classical. What do you recommend?

Panagiotis Damaskopoulos, France

You're right: Epos and ProAc speakers tend to match well with Naim

amps. Epos ES12s (£499) would make a particularly good partner for the CD3.5 and Nait 3R combination. You should also consider auditioning Dynaudio Audience 50s and Audiovector C2s, but if you wish to add a NAP 90 in the future, why not try the Naim Credos (£1,000)? They are a little 'upfront', but tend to integrate very well in Naim systems.

### **OPTIMISING NEW SYSTEM**



I am putting together a system based on an Arcam Alpha 7SE CD

player, Arcam Alpha 8R amplifier, Denon TU-260L tuner and Nordost Solar Wind cables, but I'm unsure about which speakers to buy. My tastes are fairly mellow (Portishead, Massive Attack), but with an occasional burst of the Prodigy.

Ian Salters, via e-mail

All of your musical tastes have fairly heavy bass, so we assume that you enjoy that element of the music. Depending on your budget, we would listen to Heybrook's Optima (£259) speakers as the bass is stunning at the price. If you can spend a bit more, you'll find the midrange and treble will improve dramatically (that may be what you are after as the vocals in Portishead and Massive Attack can be wonderful), and speakers like Rega Juras (£475) would create a far more real and expressive sound. Another good choice would be Tannov Revolution R2s (£350) - their lack of boxiness and good scale should suit your musical tastes (and choice of equipment) very well.



### B&W BASS BLAST

### ľ

Epos ES12.

I've had my system for nine or ten years and I'm looking to upgrade, but

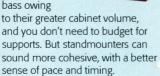
everywhere I go, I get conflicting information. I have Mission 772 speakers, Pioneer A-445 amplifier, Pioneer PD-6300 CD player, Pioneer F-656 tuner and a Pioneer CD-445 cassette deck all with original interconnects and QED 70 strand speaker cable.

My first priority is the speakers and my budget is about £400. I really need to understand what benefits floorstanding speakers have, if any, over standmounts. My shortlist covers Mission 773e, B&W 602SE and the new Mission 780. My room is 20ft x 12ft. Andy Davies, Worcestershire

The differences between floorstanding and standmount speakers are fairly simple, though Stand tall or small that's the question.

FLOORSTANDERS VS STANDMOUNTS

exceptional products always break rules. Floorstanders tend to deliver more



Given your situation, don't be tempted to go for a new speakers without trying a new source component first. If you're planning a full system upgrade over time, it is most sensible to start with the element of the system that creates the least coloration in the sound. If you choose a source component with the sonic characteristics you require and then add bits to suit that as you go, you'll be in a far more flexible position when you next come to upgrade. An Arcam Alpha 7SE CD player would be a good place to start.



I have recently brought many of my hi-fi components up to date, most

recently with an Arcam Alpha 7SE CD player to go with my Arcam Alpha 8R amplifier. I currently have B&W DM602s biwired with QED Profile 4x4 cable sitting on Atacama SE20 stands. They sound fine with simple pieces of music such as Dire Straits or Celine Dion, but with more complicated pieces, the bass seems to get lost and ends up with the whole piece sounding confused and muffled. I have tried moving the speakers, but with little effect.

I have decided to replace my speakers with something more Arcamfriendly and less laid back, with a budget of about £350. My current front-runners are Tannoy Revolution R2s or KEF Q35s, but

I'm open to any suggestions. Simon Bane, via e-mail



Rega Jura.





### SPINE-TINGLING VOCALS



I'm planning to buy my first separates system. What do you think of the

new Century range by Marantz -CD-6000OSE and PM-6010OSE, with the Tannoy Revolution R3? I heard the two companies are affiliated. Is that true?

I like floorstanding speakers and mostly listen to vocals and



Dynaudio Audience 40.

trance music. I like sharp, punchy bass and vocals that send a shiver down my spine. Hwuan Chen

The system you suggest is likely to be a good 'un – refined and easy on the ear, with particular strengths in stereo imaging. However, its bass may not be sharp and punchy enough for you tastes.

Have a listen to Arcam's Alpha 7SE CD player (£350) and Alpha 8R amplifier (£380) - they will give you sharper bass and more detail and warmth in the vocals. In terms of speakers, it may be better to choose standmounters rather than floorstanders, as you'll get a tighter (although less voluminous) bass and more detail for those vocals to send a shiver down your spine. Try and listen to Heybrook Heylette Bs (£200), or Dynaudio's excellent Audience 40s (£400).

You are right, Marantz and Tannoy are affiliated in the UK, and common development platforms can create some super 'one-make' separates systems.

### NAPPY NUT





I bought my hi-fi (or at least that's what I like to call it) some years ago

now and it supplied background music diligently during nappy changes etc, but the kids are now old enough not to destroy speakers and chew CDs.

I realised after sitting down and seriously listening to music for the first time in a while that my trusty system was somewhat lacklustre and very tired sounding. I have decided to go all-new with a budget of about £1,000. My musical tastes are mainly heavy rock with some classical organ music and my room is about 9m x 6m.

Mark Peskett, via e-mail

On your budget, we'd probably leave the tuner for later and concentrate on the matter of improving the quality of the main system. A good choice is the combination of Sony CDP-XB930E CD player (£299) with a Rotel RA-971 MkII (£250) or Arcam Alpha One (£230) amplifier. To safely combine children and speakers it's probably most sensible to go for a floorstanding pair as they're less vulnerable. Try listening to Heybrook's Optimas (£259) as they should do very well with your music tastes. That lot brings you up to about £800, so with about £100 spent on cables, you still wouldn't go much over budget with a Denon TU-260L MkII tuner (£130).

### NEAT, BUT LACKING BASS



My system consists of Cyrus Pre/PSX-R and Cyrus Power amp,

Micromega Stage 3, Neat Petite/Gravitas bi-wired with Nordost Super Flatline and a Wireworld interconnect.

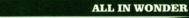
I enjoy the open imagery of this system, particularly with vocal and acoustic music. The Neat Gravitas are the most recent addition following a move into larger premises, and gave the Petites more weight without compromising their open nature.

I am listening to more acid jazz, hip-hop, reggae and darker sounds like Massive Attack, and feel that the system needs more bass presence at lower volumes. This may seem surprising as the Gravitas are huge and the Cyrus is supplying plenty of power. I'm now looking for the rich, open sound of the Neat speakers, but with a little more bass, and I'm not sure which route to take.

Should I look at changing the amps, or change the nature of the sound with new speakers? Could the Micromega be at fault or maybe the speaker cable? I have a budget of £1,000-1,500. Patrick Hoole, Hove

Before you do anything get yourself some Electrofluidics or Townshend speaker cable. It's better than anything at bringing out the best bass that a system has to offer.

A lack of bass at low volumes often comes from a lack of power in the amplifier, and the Cyrus Power is certainly not as powerful as some. A solution would be to add another Cyrus Power and bi-amp the speakers, so doubling the power available. Just adding the Cyrus Power would also leave budget available for a new CD player - a Rotel RCD-991 (£750), NAD S500 (£1,100) or Roksan Caspian (£895) would fit the bill nicely. None are 'fat' or too 'in your face' and should integrate





I've set up an office in a small spare bedroom and

would like a second system to provide music while I'm working. I need remote control to mute it when the phone rings, and the system must be portable and CDbased so I can take it with me when I'm working away from home. Cost isn't an issue, but the thought of buying a ghetto blaster is anathema to me as I require good sound quality.

I am considering the new Linn Classik with tuner, and my dealer also suggested a Denon CD/receiver, but I am not sure what speakers would suit. Headphones would not be appropriate because the whole system should fit into one of those smart aluminium flight cases so I can take it into hotels without the receptionist calling security! Ed Griffith, Cardiff

Your options are somewhat limited We're not big fans of systems in

Linn Kan.

be significantly better than a ghetto blaster. Your dealer has suggested a couple of good solutions, with the Linn Classik being our preference. It's the more expensive option but its performance warrants the extra. If you do go for the Linn then the obvious speaker choice is the Linn Kan (£295) to partner it. However they may prove rather heavy and smaller alternatives include the Technics SBM-01 and Dali Royal Menuet (£400).

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Paul's got so much to tell you about Sharp's new digital technology it could change your life.



ifferences in technology notwithstanding, the core aims and potential benefits of both the Sharp SM-SX100 and Tact Millennium (HFC 194) digital amps are the same. Not least is the fact that this technology allows the direct connection of current and future digital formats without any intermediate 'analogue' processing. In this way, the signal path is kept as simple and clean as possible.

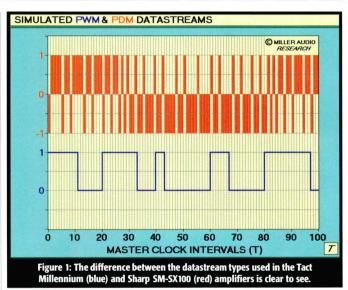
Broadly speaking, both amps maintain the incoming audio in the digital domain and use it to control (modulate) onboard DC power supplies via a network of very high-speed MOS-FET power transistors. This produces a very high frequency (RF) signal at sufficient voltage to drive the speakers directly, leaving the audio (music) signal buried within. In practice, the audio is recovered by filtering the RF signal of its high frequency content, revealing the low frequency end of the spectrum, which is largely occupied by the music.

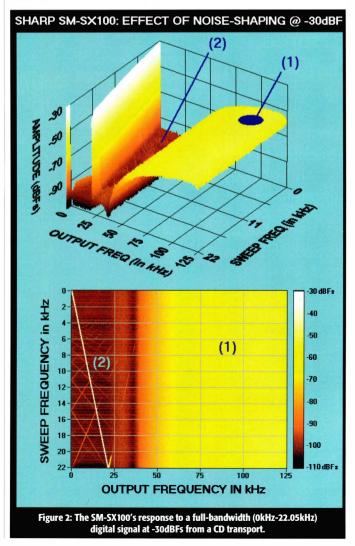
Because these fast-acting power transistors are being used as on/off switches, they avoid the 'partial' conduction and biasing requirements of conventional analogue power amp stages and are thus much more efficient. Crossover-like distortions are avoided, as are channel imbalances at low signal levels, permitting very high power amps to be squeezed into modest enclosures with little or no heatsinking.

That's the theory, anyway. In practice, implementing a successful digital amplifier simply trades the well-known difficulties of an analogue design for a whole new raft of brain-busting technical difficulties. Digital amps may well be the future of audio, but at the moment they are no panacea for either the designer or consumer.

The key difference between the Sharp SM-SX100 and Tact's Millennium lies in how the incoming digital data is manipulated. Both amplifiers employ a process called truncation and noise-shaping to reduce the 'size' of, say, the incoming 16bit words, while shovelling the distortion and noise this creates out to higher, ostensibly inaudible frequencies. Tact breaks the 16-bit data into smaller 8-bit chunks while increasing the data rate by 8x from 44.1kHz to 352.8kHz, assuming a CD source.

Naturally, and even with the 8x oversampling, trying to describe the same music information with 8-bit words rather than 16-bit words creates extra noise and distortion that's





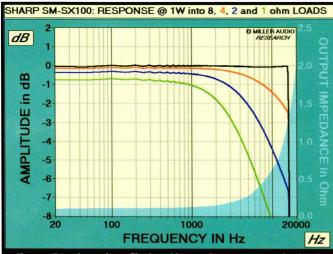


Figure 3: Extensive analogue filtering adds a reactive component to the Sharp's output impedance, which modifies its response into different loudspeaker loads.

spread uniformly over the extended 352.8kHz bandwidth. Tact 'shapes' this extra noise into a lump out of the way of the audio range. So, although there's more noise at ultrasonic frequencies, noise in the audio range is back to where it was with the original 16-bit data.

Sharp takes this technique to its logical extreme. Here the 16-bit data is chopped up into single bits while the data rate is increased by 64x to 2.8224MHz (2,822.4kHz). This causes a massive error in the description of

the changing width of the pulses that defines the amplitude and shape of the final music waveform while, in the latter, it's the density of the pulses that represents this same information.

Both these digital signals are used to control or switch the DC voltage from the amplifier's power supplies, which are directly connected to the speaker via an output LC filter network. It's this filter that scrubs out the very high frequency part of the PWM or

### "Implementing a successful digital amp simply trades the difficulties of analogue design for new, brain-busting problems."

the music signal and reduces its dynamic range to just 6dB or so. However, this poor 6dB dynamic range is consistent over the entire 2.8MHz bandwidth which, with seventh-order noise-shaping, gives plenty of room to redistribute the noise towards the upper end of this extended range and recover (as close as possible) the original 16-bit, 96dB dynamic range across the audio band.

### **COMPARE & CONTRAST**

These two different datastream types are represented on Figure 1. The (blue) 8-bit code used by the Millennium takes the form of a variable-width signal and is known as Pulse Width Modulation (PWM). The (red) 1-bit bitstream employed by Sharp goes by the name of Pulse Density Modulation (PDM). In the former case, it's

PDM signal to reveal the underlying music waveform.

Theoretically, the PDM technique should prove more linear than the PWM route because it employs the same '1 bit' over and over again. By definition, this singular bit must always be the same 'size', whereas an 8bit PWM code constitutes some 256 (28) different combinations of levels (see Oasis, HFC 191) which are not necessarily precisely '1 bit' apart. In practice, however, the Millennium's PWM operation realises a superior low-level linearity and dynamic range, largely because of the Tact's sophisticated preprocessing of the data to account for distortions in the high-speed output switches.

### ONE BIT AT A TIME

The reality of trying to implement a 1-bit, seventh-order

noise-shaper is graphically illustrated by Figure 2, which shows the SM-SX100's response to a full-bandwidth (0kHz-22.05kHz) digital signal at -30dBFs from a CD transport.

The huge welt of requantisation noise (1) that's squeezed into an area outside of the audio range is impossible to miss and demonstrates that the dynamic range of the 'musical frequencies' (2) is largely restored.

You may also see the criss-cross pattern of spurious digital distortions within the audioband which is hardly ideal but, once again, difficult to avoid with high-order noise-shaping. Indeed, noise, distortion and digital spuriae are all more pervasive than with the TACT Millennium amplifier and, ironically, lends the SM-SX100 an 'analogue-like' technical performance.

High-order noise-shapers are very difficult to keep stable, so while the Millennium with its lower-order noise shaping and digital scaling gives a very clearly defined clip at peak output (0dBFs), the SM-SX100 becomes progressively less stable above-10dBFs, producing glitches that manifest as noise and distortion on the output. Noise and distortion are also intrinsically bound to the stability of the power supply in a digital amplifier.

In this instance, Sharp needs a linear power supply which offers a stable voltage and current delivery of just 3-4A at 2.8MHz with minimal in-band noise. For a 100dB dynamic range with 40V rails, the power supply ripple cannot exceed 0.4mV, which is equivalent to a 0.1mOhm output impedance at 4A current. A 1mOhm source impedance is practical for a switch-mode supply, but 0.1mOhm is little short of a technological nightmare...

### **CABLE KNITS**

In common with all digital amplifiers, the SM-SX100 requires a great deal of analogue filtering on its output to remove as much high frequency noise as possible and isolate the music signal proper. This also adds a reactive component to the amplifier's output impedance, which modifies its response into different loudspeaker loads (see Oasis, HFC

177) and makes it rather more sensitive to choices of loudspeaker cable.

This is the bright blue, shaded trace on Figure 3, which shows how Sharp has optimised its response for a purely resistive 8 Ohm load (black trace) while significant losses in overall signal level and treble extension occur into 4, 2 and 1 Ohms (red, blue and green traces respectively).

Connected to a 'real' loudspeaker load, the overall system response is severely 'rippled' in sympathy with the speaker's own impedance trend.

Round the back of the SM-SX100, Sharp has fitted a 8/4 Ohm speaker selection switch. This is rather more comprehensive than its 'analogue' equivalent because it changes the filter characteristics according to the load, ensuring the 8 Ohm setting gives maximum power into 8 Ohms with flat response and vice-versa for 4 Ohms. Driving an 8 Ohm load with a 4 Ohm setting produces a loss in output from 165W to 105W, for example.

Like Tact's Millennium, the Sharp SM-SX100 is another glimpse of our digital future, but not necessarily the shape of it. I look forward to following the difficult birth, fractious childhood and final maturity of this promising technology. Do you have a subject for the Oasis? Please contact Paul Miller via e-mail on MILLER\_AUDIO\_RESEARCH @compuserye.com

### GLOSSARY

**BINARY OR DIGITAL WORD:** A

number composed solely of 0s and 1s. A 16-bit binary word is 16 digits long. As each digit can be a 0 or 1, there are 2" possible permutations.

**CLIPPING:** The point at which an amplifier reaches its maximum output into a given loudspeaker load. Distortion typically increases dramatically at this point.

DAC OR DIGITAL-TO-ANALOGUE

**CONVERSION:** The process by which a music signal is reconstructed from binary data.

**DSP OR DIGITAL SIGNAL** 

**PROCESSING:** In the case of the Tact Millennium amp (see HFC 194), for example, the mathematical manipulation of music signals as data in the digital domain.

**NOISE-SHAPING:** A type of 'digital feedback' used to move digital errors that occur as noise out to higher, inaudible frequencies.

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B & W

# **NAUTI** but nice

### Jason Kennedy turns his shell-likes to the latest B&W gastropod.

ad you told me at the time of B&W's original Nautilus 'sea-shell' launch (an extraordinary loudspeaker and a spectacular marketing device) that five or so years down the line I'd be reviewing the latest example of its progeny, I wouldn't have believed you. Yet here I am with the Nautilus 804, the least expensive floorstanding model and the last of the range to see the light of day.

The 804 is probably the most living room-friendly of the Nautili; it's tall and slim with a lovely curved cabinet and very fine veneer, and at £2,500 it's competitively priced for a very high-tech loudspeaker.

While it may not have the full-blown Nautilus 'Head' of the top two models, it does incorporate most of the other features such as the freestanding tweeter, surround-less Kevlar midrange driver, tapered tubes for absorbing the rearward output of mid and high frequency drive units, a freeflow dimpled reflex port and Matrix cabinet construction. All these elements contribute to exemplary measured performance. Bandwidth is quoted at 38Hz-22kHz (-3dB) and harmonic distortion as less than one per cent 70Hz-20kHz, which is pretty impressive from a nominal eight Ohm design with 89dB sensitivity.

What sets this apart from the 805 as a 'proper' Nautilus design is the 150mm midrange drive unit and its accompanying tapered tube, the existence of which is indicated by the presence of an aluminium decoupling 'nozzle' at the rear of the cabinet. The Kevlar cone has a thin foam impedance-matching surround, which has the benefit of greatly reducing reflections from the surround and contributes to the unit's extremely low distortion

The 804's elegance comes at some cost to stability. The spike footprint is quite small for the height of the speaker: it's just over a metre tall, but

the base measures just 23.8x34.4cm and the spikes sit a couple of centimetres inboard. It's the sort of shape that would probably benefit from a plinth of some type.

### **SOUND QUALITY**

Having been designed by the team that was responsible for the 802 that impressed me so dramatically in 1998 (HFC 183), I had high expectations for this relatively compact model. And while it was inevitably in a different class when it came to high volume levels, there were many similarities that reminded me of the good times I had with those big beauties.

There's one caveat I should mention in the light of that previous experience: these speakers take *ages* to run in. In the case of the 802s it was three or four months, so I didn't know what their full potential was until after the review was written and published. I fear the same will apply here, but it's nice to know that you're buying a product that will improve with age.

First impressions with the 804s were inevitably of the





more sensible volumes.

The balance is to an extent responsible for the analytical, highly detailed sound of the speaker; it's not the only or even main factor, but it must contribute to a result that's pretty revealing of everything else in the system, particularly the recording.

and its benefits in terms of low

and mid-level listening could

be appreciated. While the 802s

els that the average neighbour

would consider anti-social, the

804 'works' most attractively at

were voiced to sound best at lev-

I've rarely used a speaker that's so sensitive to phase changes, image manipulation and special effects within the music – I discovered new elements of studio wizardry within some pretty familiar material. Radiohead's OK Computer, for instance, has some very odd but effective phase-related effects at work, and an awful lot of spatial manipulation around instruments, voices and sounds.

The 804 also proved remarkably revealing of different recording techniques and environments without resorting to brightness in the way that 'detailed' speakers often do. You really appreciate the variety of sonic effects that producers and engineers conjure up in their efforts to make more interesting recordings, yet which lie unheard with the average 'stereo'.

Its balance seems to be

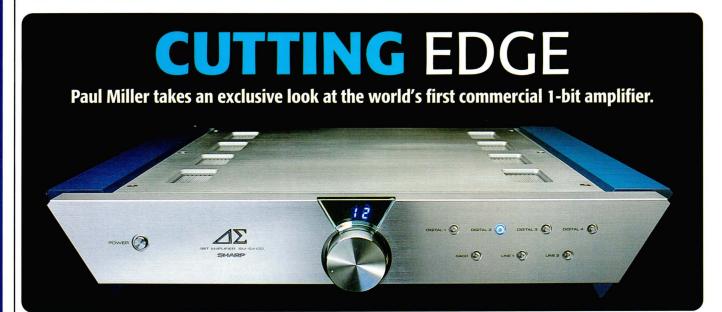
speaker for the headbanger. I used the 804s with two power amps, a 50-Watt Michell Alecto and the 200-Watt Gamut (née Sirius) D200. It clearly preferred the latter (more expensive) model, but even with this much power on tap was not as powerfully driven in the bass as one might like at high levels. I guess you need more cabinet volume and bigger drive units to move that sort of air.

### CONCLUSION

The Nautilus 804 is an extremely proficient and clean loudspeaker, it tells you exactly what's going on in the recording, and while it may not be the most sizzling foot tapper around you can be sure that very little is being added to the mix on its account.

There is an element of it pleasing the head more that the heart, but it's probably one that could be countered with the right ancillaries. It might even get there on its own once the Kevlar is fully run-in.





ike a bolt from leftfield, Sharp, a company previously best known for its LCD projector technology, has launched a radical new amp onto the market. The SM-SX100 is the world's first commercial 1-bit digital amplifier and, at about £10,000, is raising eyebrows across the industry.

However, the likes of Krell, Mark Levinson and Audio Research can probably rest easy in the knowledge that the SM-SX100 is something of a 'technology demonstrator' – expect to see 1-bit digital amplification moving into Sharp component systems, AV amplifiers, portable and car audio rather than other high-end separates.

Nevertheless, the SM-SX100 ranks as both a technical and visual statement. Its aesthetics wouldn't look out of place in Poirot's drawing room, and reinforce the sheer individuality of this product.

In a parallel universe, there's probably a CD player and pair of speakers to go with this amplifier. Here, the SM-SX100 is a technological island, its principal bridge with the mainland made via a series of digital inputs which interface directly with conventional CD transports and, in an intriguing gesture, with the digital output of Sony's new SACD players.

This is made all the easier because the data format adopted by the SM-SX100 mirrors that of SACD, unlike TACT's Millennium digital amp (see HFCs 178 and 194). For a full discussion of Sharp's 1-bit technology and how it compares with TACT's digital regime, see my Oasis on p48.

"In a parallel universe there's probably a CD player and pair of speakers to go with this amp. Here it's a technological island."



For now it's enough to think of the SM-SX100 as a digital conduit, maintaining the music data stored on CD, SACD and DVD (the latter up to a 48kHz sample rate) in digital form until the moment before it hits the speaker terminals. The problems of conventional analogue amplifiers with their big power supplies, poor channel balance at low volume and waste heat all have the capacity to be eliminated with a true digital amplifier.

As with SACD, data passes through the SM-SX100 as a high-speed bitstream – a stream of single bits (1s and 0s) or pulses that race ahead 64 times faster than they would with a conventional CD player. The amplifier magnifies these pulses and their 'density' defines the level and shape of

the final, filtered music waveform. A 1-bit digital amplifier really does have the potential to be this elegant even if, in practice, there are huge technical hurdles to be overcome.

Under the bonnet, things are pretty complex but

Sharp's user interface could not be simpler. Just select from one of five digital inputs (including

SACD) or one of two analogue inputs which route the output of a tuner or phono stage via the SM-SX100's onboard A-to-D converters.

A rotary volume control allows you to 'dial-up' different power levels on a scale of 0-128. Frankly, this scale is pretty arbitrary. A setting of 80 represents a full power output of 165 Watts into 8 Ohms with a peak level digital input. This falls to 125 Watts at low bass frequencies and 110 Watts at high treble frequencies with the speaker selection switch set to 8 Ohms.

Set to 4 Ohms, the amplifier delivers no more than 130W, but its response characteristics are then optimised for these lower impedance speakers. I'll explore this theme in *Oasis* but, for now, with modern CD material, I'd not be tempted to advance the volume control much beyond 80. Settings beyond 90 could well damage your loudspeakers if the amp clips, producing crushing levels of distortion.

### **SOUND QUALITY**

TACT's Millennium amplifier taught us that this type of technology can have a very distinctive sound, so I assembled the same panel of listeners, used the same Theta CD



transport/Audio Note speaker system and reverted to familiar music selections for our in-depth, subjective tests.

In the event, the SM-SX100 lacks the Millennium's 'dark' acoustic background and its ability to depict huge dynamic contrasts. Instead, it sounds animated but not intimate, is able to play very loud but sounds neither especially 'big' nor overly spacious.

One listener suggested the amplifier had "signed a nonaggression treaty with the music": while its presentation is always taut and composed, this exercise in 'music delivery' lacked the empathy expected of a first-rate amp. For example, Cassandra Wilson's *Step by Step* was exceptionally well resolved in terms of detail but not in spaciousness or colour.

Sure enough, the rhythm line is very, very tight, the bass deep and well maintained while the treble sounds exceptionally tidy, lacking any suggestion of 'digital distortion'. But it's simply too damn tidy – "We need a little more earthy reality," said one panellist.

Lesley Garrett's recording of Die Fledermaus sounded rather more like a studio recording, lacking the spaciousness of the hall. Again, the sense of control and articulation is unmistakable but there's not the depth, the immediacy and dynamic variation we know to be possible. Similarly, the upper of the bass lines from Christy Moore's Reel in the Flickering Light was less distinct while his voice was

simply not not as gruff or as 'Irish' as we know, suggesting a remoteness from the performance that's just not typical.

In an effort to understand where Sharp may be attempting to position the amplifier, we listened to some contemporary and thoroughly electronic Japanese music. *High Fidelity Lounge* is one such album, musical digits that give the SM-SX100 something to chew on.

Here the technical proficiency of the amplifier allows it to sound extremely potent, incredibly deep and extended with no hint of booming or sharp aggression. The synthesised bass, strings and percussion play directly into its hands, sounding both precise and loud without becoming physically oppressive.

### GETTING BEHIND THE SOUND

Perhaps it is something of a self-fulfilling prophesy, living up to the myth of an archetypal

digital amp; cool, calm and calculating like a very big, fast and capable computer crunching the musical numbers. In theory this is all that should be necessary. Yet, in practice, manufacturers who've been at the top

end of audio for any length of time understand that music also has central peak. Perhaps through some instability in the 1-bit noise-shaper combined with intermodulation distortion in its high-speed MOSFET output stage, a host of other peaks are present whose nature is known

to compromise both stereo imagery, a sense of depth and what might otherwise be termed 'musicality'.

Never-

theless, nothing can detract from the fact that this is a highly individual product. Nothing quite looks or sounds like the SM-SX100 and that alone is bound to polarise opinion – even if, for our unbiased blind listeners, it remains a triumph of science over art.

Credit where it's due, it is perhaps slightly unrealistic to expect the very first stable, 1-bit digital amplifier to also set new subjective standards when the technological feat alone is little short of awesome.

The SM-SX100 is the technology of the future but, like all brand-spanking new innovations, it will probably need a season or two to really blossom. And when it does, as in this case, *Hi-Fi Choice* will be first with the news.

The SM-SX100's aesthetics wouldn't look out of place in Poirot's drawing room – or aboard the USS Voyager.

"The rhythm line is very, very tight, the bass deep and well maintained and the treble sounds exceptionally tidy."



a life, a vivacity and 'soul' that's immediately recognisable but very tricky to quantify.

Fortunately, having carved the SM-SX100 apart in the lab, some very good reasons emerge to explain the performance of this amplifier (turn to *Oasis*,

p48 for greater detail). As I've mentioned, its power output beats Sharp's 100 Watt specification, but varies through bass, mid and treble and with the speaker load. Distortion, too is significantly higher than that achieved by a 1-bit CD player, for example, with a best-case figure of 0.025 per cent.

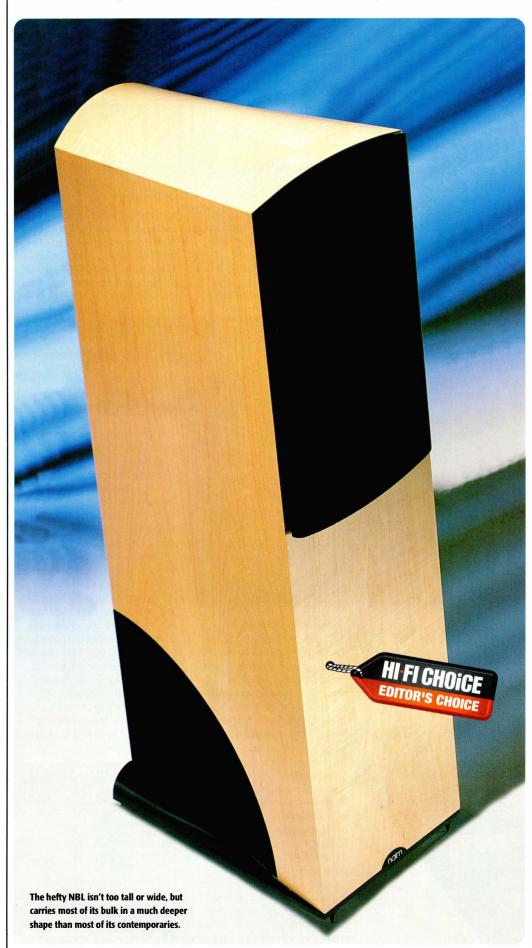
However, it's the jitter spectrum that's worth a thousand words (see graph). Here we see a highly complex pattern where there should only be a single,



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March 2000 HI-FI CHOICE 53

# **NESTING** BOXES



### **Paul Messenger**

braces himself and gets to grips with a pair of speakers that together weigh about as much as he does.

aim Audio takes its own unique approach to loudspeakers – as indeed it does with amplifiers and CD players – going to quite extraordinary lengths to decouple mechanically the various driver units from their enclosures, and the enclosures from each other.

This NBL ('nested box loud-speaker') is a four-driver, three-way design which costs £6,648 the pair, and fits into Naim's speaker line-up between the compact two-way SBL ('separate box loudspeaker', £2,395) and the much larger three-way DBL ('decoupled box loudspeaker', £10,750, which was nearly christened an FBL because of its considerable bulk).

It shares both the principles and the drive units of its older siblings, but the NBL's very different execution is altogether more elegant and practical. And although the £6,648 price tag is pretty serious, the sheer complexity of the design and the number of parts involved make it seem very decent value for money in a market context.

Like all Naim speakers, the NBL is available in two versions, one active, the other passive. The former costs £650 less because it doesn't need a large and complex passive crossover network to split the signal into the three separate frequency bands that feed the individual drivers. However, the active route works out a lot more expensive in system terms, because it requires an electronic crossover unit plus multiple power amps to power the drive units. The speaker itself is the same in both formats, so an NBL can be upgraded from passive to active very easily. To facilitate that, and help remove the crossover from the major sources of vibration within the boxes, the crossover is built into a tray which hangs down, recessed and hidden from view, against the back panel.

This is a large and very hefty (41kg) loudspeaker, but by no

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means an unattractive one, thanks to high-class, real wood veneer and an interesting shape which features a domed top and which tapers, in both height and width, from front to rear. It's neither excessively tall (116cm) or wide (21-29cm), carrying most of its bulk in a much deeper shape than most contemporaries. The speaker is intended to be placed close to a wall, which will minimise its intrusion into living space, but its considerable depth (c.47cm) means the mid and treble drivers are well clear of the wall, so first-reflection colorations shouldn't be too obvious.

### ACOUSTICS **AND AESTHETICS**

Apparently, the acoustically transparent foam grilles used in earlier BL-series Naims is not popular on aesthetic grounds, so the company has come up with a technique for using a more orthodox fabric grille.

The grille frame is permanently screwed in place (using ten screws!) to make sure it doesn't rattle, and the fabric, fixed to a rubber O-ring, is stretched over the frame, then a second O-ring fits snugly over the top, tidying everything up. The only worry is that this





### "The NBL repeated that trick I've come to associate with Naim components: making it easy to get into unfamiliar music."

'permanent' frame looks less than ideal acoustically, despite inside-edge chamfering.

Whereas the DBL carried its bass, midrange and treble drivers in a conventional vertical line, up the front of its wide enclosure, the NBL adopts a very different strategy. The midrange and tweeter are similar for both (and use the same drivers, although the NBL adopts an inverted disposition), but instead of the single 15incher used by the DBL, its bass is supplied by two much smaller 8-inch frame drivers (the same as those used as main drivers by the SBL) mounted back to back in the bottom rear corners of the sides.

These are acoustically closely coupled to both rear wall and floor, so that each is effectively driving one-eighth of a sphere, giving a substantial increase in 'room gain' over such a driver operating clear of reflections, and also generating a smoother in-room response.

The two bass drivers in the NBL actually have a combined cone area just slightly more than half of the DBL's 15-incher, so the room gain is an essential part of the mix.

It's not a new technique -Roy Allison used it in his own and in AR designs (notably the AR9 and AR90 models) many vears ago - but it does make a lot of sense for a three-way design where the fashion trend is inexorably towards narrowfronts, and there are obvious parallels with Mission's new 78-series models (see HFC 199).

One consequence of repositioning the bass drivers vis à vis the DBL is that the bass-to-mid crossover point has been moved down, from about 350Hz to 270Hz, while the power handling and ultimate loudness capability of the smaller NBL is bound to be somewhat less than its bigger brother.

### WHAT'S IN THE BOX?

The enclosure complexities are probably better explained diagramatically, but starting from the ground and moving upwards, the base is a substantial alloy casting, securely accommodating the chunky 8mm spikes. The main enclosure carcass, which houses the

60-litre sealed box bass chamber, is rigidly fixed to this base, but the drive units are all mounted in sub-enclosures which use a variety of mechanical decoupling techniques.

The bass arrangements are very much a doubling up of those used in the SBL. They have the same intention of providing a large, sealed-box alignment alongside the tight damping and excursion control provided by using a small 'antechamber', with controlled acoustic resistance leakage to the main enclosure. The two drivers are mounted back-toback (helping to cancel reaction forces) in the small 13-litre sub-enclosure, and this is decoupled by allowing some horizontal movement in its mounting on the base.

The main bass chamber stops some 55cm off the ground, although the enclosure continues up the sides and over the top to provide the 'nest' for the mid/treble sub-enclosure. This is a decent sized sealed box, considering it only has to handle midrange frequencies. It's heavily tapered to avoid parallel faces, sitting on leaf springs which provide low frequency side-to-side rocking decoupling. The drivers themselves are mounted on another leafspring arrangement that operates in the fore-and-aft plane.



It takes a long time to set up and install a pair of SBLs or DBLs, because the separate enclosures have to be painstakingly assembled onto the complex frame/stand. The NBL, however, is dead easy. Each speaker comes in the one box. Simply fit the spikes, stand it up in position, and remove the four transit bolts that hold the sub-enclosures in place during shipping, and you're away.

The far-field in-room averaged measurements are rather me of my wall-mounted drive units (Tannoy 15-inch dual concentrics), a speaker system which is a true boxless infinite baffle. The NBL doesn't have the same tonal warmth, but it does share a similar 'boxless' quality, which attests to the efficacy of that complex enclosure decoupling.

However, there's no avoiding a somewhat cold and clinical character, which is certainly a function of the balance. Indeed, during the opening bars of Talvin Singh's Traveller, I wondered whether the bass drivers had even been connected and then the bass came in with considerable power, crispness and gravitas, and none of the usual box colorations and overhang of conventional speakers. The dry bass delivery takes a bit with some material. When entertaining a teenage crowd partying to The Offspring on Millennium Eve, I elected to use Mana rather than Naim power amplifiers for their 'kinder' overall balance.

I discussed the 'forwardness' with designer Phil Ward, who said that the NBL had been around in active form for some months before the passive version was finalised, and that the control settings arrived at under active drive provided a 'target function' for the speaker's passive balance.

I like 'forward' speakers myself, but suspect that because it's essentially 'cleaner' an active system can get away with being rather more forward than its passive equivalent, and can't help feeling that a slightly more restrained balance might be more acceptable in the marketplace.

Stereo imaging isn't a quality one normally associates with Naim equipment, but the NBL delivers startlingly good stereophony, aided by the very low box signatures, and sometimes audible extending beyond the confines that physically separates the two speakers. Large acoustic spaces, like well-miked cathedrals, are also reproduced with excellent conviction, thanks again to the ultra-clean bass end.

Indeed, the NBL repeated that particularly neat trick I've come to associate with Naim components: of making it very easy to get into unfamiliar music. No, I haven't turned into an Offspring fan, but I did find myself spending an unusual amount of time eavesdropping on Radio 3, just because the NBL's wide-and-clean midband dynamic range is so convincing on all sorts of acoustic music even difficult stuff like choirs and brass.

At the same time, I was equally impressed by the way pure electronic instruments were reproduced, with the sort of realistically sharp stop/start edges that reason dictates but which in reality is very rarely reproduced.

### CONCLUSIONS

Combining the bass performance of two SBLs with the DBL's mid and top end, and in a far more elegant package than the latter, the NBL delivers a stunning amount of musical information with as wide a dynamic range as I've heard from any loudspeaker.

Some will certainly find the forward balance not to their taste, but anyone seeking serious speaker performance at a surprisingly realistic price ought to run a pair of these past their ears.



### "The dry bass delivery takes a bit of getting used to at first, but the freedom from boom, resonance and box coloration gives a very clean and articulate performance with very subtle texture."

interesting, confirming the effectiveness of the bass system in delivering a bottom end which is smoother and more even than most, going well down to -4dB at 20Hz in-room.

The balance as a whole is a little unusual, however, because although the whole trace falls within rather impressive +/-5dB limits, the broadband character is quite unusual in emphasising the upper midband (600Hz-1.5kHz) and treble (c.5kHz), while the upper bass and lower midband (70Hz-500Hz) are correspondingly 'lean'. This makes sensitivity difficult to pitch accurately, but on balance I'd rate it at 89-90dB/2.83V. The load hovers around 6 Ohms across most of the range, with no abrupt phase angles, falling to a 4 Ohm minimum at 20Hz.

### SOUND QUALITY

The NBL was auditioned only in its passive form - the active version promises still better dynamic range, as well as potentially useful extra flexibility in setting the gross overall balance. Even the passive version is an astonishingly good loudspeaker in most respects, especially its wonderful dynamic range and freedom from boxiness.

One first and lasting impression was that they reminded

of getting used to at first, but the freedom from boom, resonance and box coloration gives a very clean and articulate performance, with very subtle texture and tonality. It's nearly nine years since I reviewed the DBL, so comparisons are difficult, but as I recall the bigger speaker lacked the bass smoothness of the NBL. However, its 15-inch driver had more grip, immediacy, drive and authority. Where the DBL seemed to lead with its bass, the NBL is much more midband-oriented.

Another feature of the forward balance is that the speaker remains highly articulate at very low levels. In fact, it's remarkably articulate through the voice band at all levels, revealing previously obscure lyrics with great dexterity. The other side of this coin, however, is that high level replay can become a trifle wearing

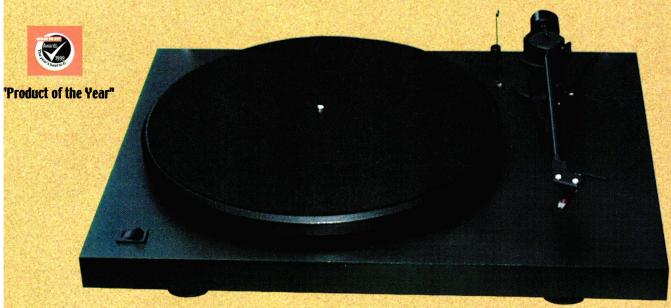


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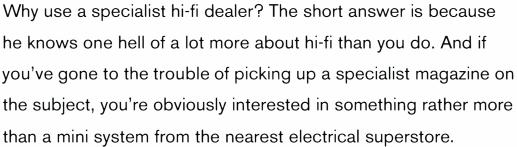
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# Five Stars

Paul Messenger explains why you should visit an independent



You've probably bought this magazine for one of two reasons. You're looking for advice (presumably unbiased and good) on choosing and using your hi-fi system, and/or you're checking out the ads to decide where to go and buy it.

The independent specialist dealer doesn't know everything, and he doesn't know much about you, but if music's an important part of your life, he's the only guy around who's able (and hopefully willing) to help you choose the equipment which will give you the best long term satisfaction.

### **Power of the Press**

Dealers sometimes moan to me about the power of the press, and the disproportionate influence of its 'Best Buy' and multi-star ratings. Well, I've been in the press for twentysomething years, and still feel more ignorant than powerful.

The more I mess around with hi-fi gear, the more I become aware of our lack of real understanding of the subtleties involved, and the more I appreciate the importance of the dealer's skills and experience, in bringing together components so that the whole is greater than the sum of its parts.

We hacks get paid to write words, often about components in isolation, because individual product reviews are still the staple diet of the press. They can sometimes provide a useful guide to the way a product performs, but only under the particular circumstances in which the review was conducted.

The hi-fi reviewer attempts, with varying degrees of success, to evaluate a particular component, and find something interesting (and

hopefully positive) to say about it. That's about the end of it, and it's on to the next product.

The magazine prints the review, and that very process magically confers a measure of authority. Experienced hi-fi enthusiasts, who read reviews over a period of years and try out various products themselves, soon start to realise the limitations of that approach. Some reviews are better than others, but none can get to grips with the real heart of the problem - whether a given product will improve your musical satisfaction, in your system and your room.

### The Role of the Dealer

The dealer's role is very different, and potentially much more valuable. He has the chance to talk one-on-one. If he's good at his job, he'll use that opportunity to find out what you as an individual are looking (or listening) for.

His motivation is very different too. Sure he wants to make a sale. That's the lifeblood of any shop. But he also knows that if something he sells really does deliver long term satisfaction, there's a very good chance you'll come back again to see if he can repeat the trick some time in the future.

If you go into a shop and demand a particular CD player, on the basis that it got seven stars (out of five) in last month's magazines, the shop will probably simply take the line of least resistance and sell it to you. (Or switch-sell you to a similar price alternative, if he's fresh out of stock of that particular flavour-of-the-month.)

If you go in and say you're looking for a CD player, and want his advice on what to choose, things are liable to become more interesting. The



### specialist dealer if you are searching for real hi-fi satisfaction

onus is now on the dealer to show what he can do. His first task is to ask the right questions to try and get some idea of what you might be after.

Asking the guestions is the easy bit. The real skill comes in using the information to come up with a shortlist of likely contenders, and then conducting a demonstration so that you have a real chance to play a central role in the decision making process.

Putting together a successful hi-fi system might not be as difficult as it was twenty or thirty years ago, but it's just as easy to make a mess of things. Put the 'wrong' combination of components together and it'll still sound a lot better than any cute little mini system package. It might even

"If music is an essential ingredient in your daily diet, you owe it to yourself to become a member of the discriminating minority."

rate a five star review. But it won't match the potential of a carefully balanced and properly installed system, and it certainly won't cater for your own particular preferences and personality.

We British are notoriously undiscriminating consumers, at a mass market level at least. The majority of the population don't even bother to drive a car they're thinking of buying, never mind take the trouble to listen to hi-fi equipment.

The majority will therefore end up with hyperstore mediocrity, and hi-fi that's about as tasty as supermarket bread. But if music is an essential ingredient in your daily diet, you owe it to yourself to become a member of the discriminating minority.

You know full well that your music collection is as individual as your wardrobe, and just as precious too, so it's worth taking the time and trouble to search out the dealer and equipment

that will make that collection come alive, and give vou a new buzz every time vou play vour favourite discs.

The independent specialist may not beat the chain store on price, but he continues to thrive in a hostile environment because real hi-fi is so much more than a matter of price. The people who work in these shops are themselves enthusiasts, often with many years of experience in meeting customer's needs, and the very necessary expertise to ensure that the whole thing is properly set up to deliver the best results.

The better the hi-fi, the more important it is to get the fine details right at the installation end of things, but even the least expensive equipment can be made to sound a whole lot better if good care is taken over the fine details - the support furniture, the cabling, the positioning of speakers and so on.

Without expert assistance even high class hi-fi can give mediocre results. With it you'll stand a very good chance of ending up with something rather more than a consumer durable - something which will be a source of considerable pleasure and genuine emotional satisfaction for decades to come.

I agreed to write this signed piece, irrespective of the specific sponsors, because I believe the independent specialist dealer plays a vital role in giving customers long term hi-fi satisfaction. The views and opinions expressed here are my own and not necessarily those of Hi-fi Choice.

### Paul Messenger

The specialist Dealers listed here are professional and enthusiastic. Give your nearest a ring for a demonstration.

### STAR QUALITIES

value for money service facilities verdict



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**RAYLEIGH HI-FI** 

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RAYLEIGH HI-FI

132/4 London Road 01702 435255

**Uxbridge UXBRIDGE AUDIO** 278 High Street, 01895 465444

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**Birmingham SOUND ACADEMY** 152a High Street, Bloxwich

01922 493499 **Leicester CYMBIOSIS** 

6 Hotel Street

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32 Gold Street, 01604 637871

**CREATIVE AUDIO** 

9 Dogpole 01743 241924

### NORTH

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14 Stockport Road 0161 428 7887

**Oldham AUDIO COUNSEL** 

12/14 Shaw Road

0161 633 2602

**Sheffield MOORGATE** 

**ACOUSTICS** 

184 Fitzwilliam St 0114 275 6048

**SCOTLAND** 

**RUSS ANDREWS HI-FI** 

34 Northumberland Street 0131 557 1672

**Glasgow STEREO STEREO** 

260 St. Vincent Street 0141 248 4079





# SUPER TEST PRE/POWER AMPS

### Richard Black cranks up his 'leccy bill to check out five of the latest pre/power amp combos.

### THE CAST LIST

Musical Fidelity X-P100/X-A200 £800/£1,000 NAD \$100/\$200 £600/£1,400 Naim NAC102/NAP180 £1,000/£1,112 Rotel RC-995/RB-991 £525/£600 Technics SU-C1010/SE-A1010 £299.99/£349.99

here are various arguments for splitting an amp into two units - preamp and power - rather than going down the 'integrated', one-box route. First, the advantage of removing the high-power stages and their associated large mains transformer from sensitive small-signal stages, especially the phono stage. Second, the ability to place the power amp nearer the speakers and hence use shorter speaker cables and longer interconnects, something that often benefits sound quality. Third, aesthetics: not everybody actually wants the bulk of a high-power amplifier on display in their sitting

### **GLOSSARY**

CLASS A: The way of using an amplification device with the minimum of distortion. However, an output circuit operating in Class A yields only about 20 per cent efficiency; it dissipates the other 80 per cent as heat. That's why Class A transistor amps run warm and offer relatively low power.

POWER SUPPLY (PSU): Alternating current (AC) from the mains swings between large positive and negative voltages. A hi-fi amp needs a few tens of volts at an unvarying level, ie direct current (DC). In crude terms, the amp steps down the mains, 'rectifies' the positive and negative alternating current to give fixed voltages, and finally smooths everything to be as clean as possible. The cleaner the power output, the better the sound! WATTS PER CHANNEL (WPC): In electrical terms, one Watt is the result of multiplying one Amp of current with one Volt. An amp's power rating in WPC thus describes how much electrical energy it can dissipate into a loudspeaker for each channel. MONOBLOCKS: Stereo amps have two channels of amplification, for left and right speakers. Monoblocks have

only one amplification channel.

room – a power amp doesn't have to be in view because there are no controls on it. And finally, flexibility both to mix and match makes and to combine the features one might require.

For all these reasons, most makers switch from integrated to separate amps above a certain price, and despite a few oddities (the Audio Note Ongaku, for instance, one of the most expensive amps ever, is an integrated) the high end is dominated by separates. This test group is interesting,



### "The business about cables and aesthetics still applies, and arguably flexibility is becoming more of an issue than ever."

though, not least because it straddles the break point between upmarket integrated and relatively modest separates. As such, with luck it will help answer the question: "Which option should I take?"

The answer to that has become less obvious since the rise of CD. Many integrated amps and preamps are now sold without a phono stage, and so many manufacturers have opted to build standalone phono stages: in turn. many users have elected to buy one of those anyway, perhaps even in addition to a preamp

which has a built-in (but less good) phono stage. In that case, phono effectively becomes another line level source just like CD, tuner and so on, and the first argument (above) for separate amps looks a lot less convincing.

The business about cables and the question of aesthetics still applies, though, and arguably flexibility is becoming more of an issue than ever. It looks as if surround sound for music may finally be happening (after several false starts) and the best way to build a surround system is with a

separate processor and power amps, albeit that the one-off cost of five channels of amps and speakers is a little daunting.

Of the equipment tested here, only the Technics preamp caters to the surround sound market and even it only has one six-channel input, but Rotel's power amp

is THX-certified for home cinema use and basically any stereo power amp can be used for any pair of channels in a surround system. It's likely more preamps will appear with multi-channel inputs, so they can be used initially in stereo and later in surround with the

addition of a power amp or two and extra speakers.

Monoblock amps (of which the only examples in this group are the MF units) are likely to come into their own for that very reason too, given that most surround systems need an odd number of channels of power.

Meanwhile, for the old 'steam stereo' lovers among us (like me) there are still definite quality advantages in most cases to a good pre/power combination. And, as you'll see, never before has so much amplifier been on offer at such good value.

### **HINTS & TIPS**

If you're shelling out on a pair of amps, don't be too

mean on the cables that link them. All cables are critical, but when you consider that everything you want to hear goes through the pre/power interconnects, their importance becomes clearer. The power amp can go out of the way on the floor, but be aware that it must be placed on a hard surface - not carpet! This can block ventilation and risk overheating. If possible, use an isolation platform for best results. If you get hum when you install separate amps, ask your dealer to check the earthing of the units. Manufacturers aren't consistent, some earthing the preamp, some the power amp, some neither, some both. There should ideally be one solid earth connection to the preamp and safety earths to the other units.

### **HOW THE TESTS WERE DONE**

ach combination was treated principally as a fixed pair, although curiosity demanded a little wife-swapping. Replacing my regular reference of EAR 802 and 519, the amplifiers came between a Rotel RCD-971 CD player and ATC SCM20 speakers, with interconnects by Furakawa and speaker cables by Kimber (except for the Naim amps, which demand Naim cable). A Revox tuner, Pink Triangle LP deck (with SME arm and Highphonic cartridge) and Sony DAT deck took turns.

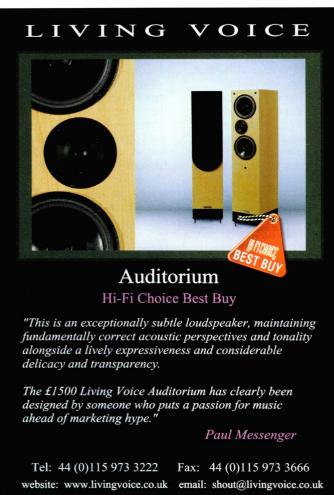
Listening consisted of both short excerpts, swapping amps as fast as possible in between, and longer, more relaxed periods of listening. Lab tests included distortion at various frequencies, output ability and frequency response, the results being reported only when something unusual turned up.

THE MUSIC WE USED:

PHILADELPHIA ORCH/SAWALLISCH - Nature's Realm (Water Lily WI A-WS-66-CD)

ASTOR PIAZZOLLA - The Central Park Concert (Chesky JD107) DONALD BYRD - A New Perspective (Blue Note 7243 4 99006 2 2)





### DEFINITIVE AUDIO Definitive Audio Starter System 1995 "A real sonic beauty. A very potent and cost effective route to audio nirvana" Paul Messenger HFC Definitive Audio Not so Starter System 1997 "Great music becomes fanatastic, addictive and totally engrossing" Jason Kennedy HFC Definitive Audio Starter System 1998 "The hardest thing here is to express just how good this system is. I have heard systems in excess of £40,000 which exhibit only fractional amounts of this cleverly-matched outfit's musical dexterity" Alan Sircom HFC Definitive Audio Starter System 2000 Now there's a story. Part exchanged and ex-dem items Sale New Jadis JA80, 60w monos, 18 months old, perfect, boxed. £4500 £10000 Cary 805c. 845 single ended 30w monos, perfect, boxed. Audio Innovations S.800 Mk. II. 25w Class 'A' Audio Innovations S.800 Mk. III Audio Innovations S.800 Anniversary -- (delightful). £4200 £8500 £400 £600 £800 £1000 £1550 Audio Innovations S.1000 Mk III monos -- (silver circuit). £1000 £2500 Audio Innovations S.1000 MK III monos -- (silver circ Art Audio Quartet. Nearly new. Living Voice Auditorium - Walnut -- (HFC Best Buy) Living Voice Avatar. Battle scarred, ex -- dem. Snell E + Huygens 4 leg. Classic, bargain. -- (2 pairs!) Snell X + Pirate 4 leg. Classic, bargain. -- (2 pairs!) Snell K + Huygens 4 leg. Classic, bargain. Border Patrol Power Supply -- (excellent). £1400 £1850 £900 £1800 £1500 £2400 £800 £650 Our stock of part exchanged items is constantly changing. Most items come and before they can be included in these monthly ads. Call for specific requirements AMEX · VISA · MASTERCARD Tel 0115 973 3222 Fax 0115 973 3666 internet: www.definitiveaudio.co.uk email: shout@definitiveaudio.co.uk Living Voice · Helios · Border Patrol · Art Audio · SJS Electroacoustics · Wadia Vitavox · Lowther · MF · Nott'm Analogue · Western Electric · SME · Canary

### **MUSICAL FIDELITY** X-P100/X-A200

hese two units are part of MF's distinctive tubular range, which has grown like Topsy since its introduction a few years back. Grown, that is, both in scope and in the size of the units: these are a good deal bigger than the originals, as well as grander in specs. The power amps put out a hefty 200 Watts each and weigh accordingly, but I think most people will agree they're considerably more attractive than most high-power amps in their class.

Inside the one-piece extrusion that forms the body of the housing, a neatly laid-out circuit board connects the components, all of which are discrete. Three pairs of power MOSFETs make up the output stage, with the case itself acting as a more than adequate heatsink - you'd have to headbang hard for a very long time to warm these units up much. At the rear are two sets of output terminals for easy bi-wiring, and a pair of input sockets to allow looping through to a second power amp for bi-amping.

The X-P 100 is constructed very much along similar lines, although to minimise hum its power transformer is housed in a separate plastic box. Again, the circuits all use discrete transistors rather than ICs; actually, the circuit board is marked out for nuvistors (as used in MF's late, lamented NuVista preamp – basically the same beast as the present suspect except for that difference) but high voltage semiconductors serve in this case.



### "With plenty of detail and a pleasing 'hear-through' quality, long-term listening is enjoyable and rewarding."

The use of relatively high voltages gives this preamplifier a fearsome maximum output, nearly 50V RMS from a low source impedance, which looks great on paper but is actually enough to damage the input of some power amplifiers under fault conditions

such as an intermittent earth connection on a phono lead. Throughout both units, component and 00 build quality are good, as are general fit and finish, although the black powder coat paint scratches rather easily.

### **SOUND QUALITY**

The predominant impression of these amps was of a distinctly fruity balance - not really bassheavy, but just a shade weighted towards the 'Barry White regions' to add a little extra roundness to sounds. It's not at all unpleasant and, frankly, it's not necessarily going to be noticeable in isolation, and is unlikely to do MF any harm in the dealer's listening room. This really is the most harmless kind of coloration, but still, if your system and/or room are already inclined towards warmth this small extra amount could just tip the balance.

Apart from that, results were mostly good. There's a little brightness on some music, and front-to-back imaging isn't always the very best, but with plenty of detail and a pleasing 'hear-through' quality, long-term listening is enjoyable and rewarding.

And when the going gets tough, those 200 Watts are useful: the

sound stays clean and focused up to high levels, making the most of a Mahler symphony, for instance, when one of that composer's typical climaxes arrives at the peak of a long crescendo, building through all the sections of the orchestra and finally adding the percussion. There is no tendency to blur such musical moments

to blur such musical moments and the tone of all the constituent instruments is never compromised.

Deep bass is generally truthful and well integrated, although just occasionally a rhythmic track would sound very slightly lazy, perhaps due to that fruitiness mentioned above. The phono input is a little

hono input is a little
veiled compared
with the line
inputs, although
its tonal balance
is very similar
and it never
sounds strained
or harsh. Gain of
the phono stage is
fixed and is suitable for highish
output movingcoil cartridges as
well as movingmagnet types, the

overload headroom being entirely adequate for the latter.

The cause of the fruitiness was not obvious on the test bench, although a small treble lift was found which correlates with the occasional brightness. Distortion is low from both units, everything seems well behaved and noise from the X-A200 is admirably low.

### CONCLUSION

The combination scores highly in many areas but is not without its foibles. All things considered, however, it makes a promising package which is certainly worth a listen. Recommended.



# NAD S100/S200 ow are the mighty, er,

reinvented. Well. NAD, after all, was for so long the budget brand to watch: but the company has inched upwards by degrees, and now the Silverline series, as seen in these two beautifully smart units, has come to what one can only describe as "the high end".

If the outward
appearance won't convince you of that, have a
closer look at the solid
aluminium casework,
complete with friendly,
deburred heatsinks and
corners. Then take the lid
off – especially off the \$100 preamplifier – and admire the
immaculate construction. Well,
the components are not the ultratweaky names like Holco and
UltraCap, but they're top quality
parts for all that.

Meanwhile, the S200 revels in one of the biggest toroidal transformers I've ever seen — or picked up — accompanied by four pairs per channel of bipolar output transistors and enough heatsink area to make sure that the unit can meet its specified 200 Watt output pretty much indefinitely. Worse than that, though, is the thought that this beast can be bridged to turn it into an 800 Watt mono speaker-crusher. Duck!

NAD's never been big on frills, and the \$100 offers little beyond selection from seven inputs (one of which can optionally be turned into a phono stage) and volume control. It does have a balanced output to connect to the balanced input on the \$200, and whether you choose to go for that or the



# "Where these amps clearly lead the present pack is with human voice, which is full, round and altogether believable."

unbalanced connection you may use cables of any length you like, thanks to the chunky output stages which can drive substantial current with negligible distortion.

The S200 carries the NAD trademark of 'soft clipping', a feature that's perhaps of less use on a high-power unit like this than on a 30W integrated — but it's switchable anyway. Apart from that, the balanced and unbalanced inputs and the bridging option, there's little to report. There's only one set of speaker terminals, but they'll accept two 4mm plugs each.

### **SOUND QUALITY**

So, is NAD as good at the high end as the budget? It might yet prove to be. This pair started off by offering the most natural tonal balance in the group and, thanks to some rather vigorous orchestral sounds, proceeded to demonstrate bass extension of a high order. All the same, although there was no doubting the depth of the bass, it wasn't quite as controlled as that from Rotel's offering.

How much this is likely to bother you depends quite a lot on the speakers you're using and the music you listen to, and we're not talking about any major loss of precision. It's most noticeable on my old favourite test of quiet pizzicato double bass, where the S200 just slightly misses the roundness and tunefulness of each note. Big sounds are actually often less revealing in this way, and something like power drumming is exciting and full of life. Treble is cleanly extended, open and sweet.

Where these amps clearly lead the present pack is with human voice, which is full, round and altogether believable, solo or in choirs. Imaging is also very good, with probably the best rendition of depth in the group, and generally resolution is only likely to be bettered by really high-end exotica. And, of course, big climaxes or music that's just plain loud is well served by the power on offer, easily 240 Watts in practice into

each channel with no sense of strain at all.

Nor does that power in any sense compromise performance at lower levels. It's often believed that big amplifiers tend to suffer from an inability to play quietly and subtly. In fact, there's really no intrinsic reason why that should be so, and the S200 is strong evidence that it needn't be. It's perfectly happy playing string quartets one minute and Aerosmith the next. In either case, detail is commendable, leaving little margin behind the best obtainable at considerably higher prices.

Measurements for both units are exemplary, with very low distortion from both, wide bandwidth, low noise and no odd behaviour to report.

### CONCLUSION

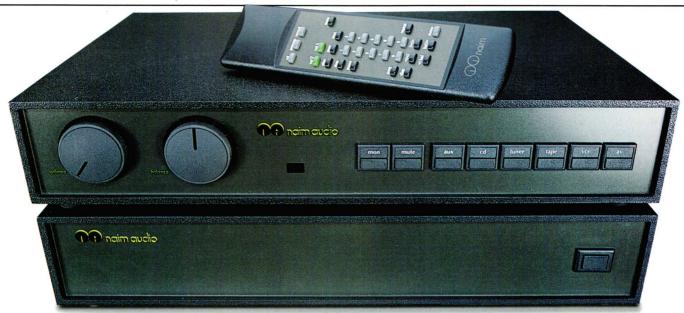
There's certainly little to criticise here and the performance in all areas more than justifies the remarkably modest price. Strongly Recommended.





NAIM

### NAIM NAC102/NAP180



t's always nice to have a few iconoclasts around the industry, and Naim can surely be classed as one of those. Just look at the back of the units: not a phono socket in sight, only an assortment of DIN input and output sockets. Naim has always claimed sonic justification for this. but it does to some extent lock users into the Naim 'thing', and the numerous options available for connecting the preamp to the power amp and/or separate power supply are pretty confusing. In the review combination, a single DIN cable carries power from power amp to preamp and left and right signals the other way.

Naim was one of the original 'hair shirt' makes in the days when a multiplicity of features was more the norm, and although the NAC 102 now sports electronic switching (via relays) and remote control, it doesn't do more than is absolutely necessary. There are six inputs, one of which can be converted to phono operation by a Naim dealer. Internal construction is neat and ingenious, and the circuits rely on discrete transistors.

Likewise tidily assembled is the NAP 180. The inside is dominated by the huge toroidal transformer, while the relatively small audio boards again sport discrete transistors plus one pair of output devices per channel. There's no separate heatsink as such, with heat being dumped into the case. The output power rating is 60 Watts and, although the case does warm up during continuous high power operation, there's little danger of the thermal trip operating in real use.

### "Naim has always laid great stress on the foot-tapping aspect of hi-fi, and judged in those terms this combo has a lot to offer."

Output terminals are 4mm sockets, and Naim insists that only the company's own speaker cable should be used, in minimum lengths of 3.5m. This is because the circuit relies on the inductance of the cable (a wide-spaced pair type) to stabilise the feedback loop, and the use of high capacitance cables could, in theory, lead to high frequency oscillations which could damage both amp and loudspeaker.

I would argue that that's a rather questionable design decision, although in the event I found no problem when I briefly tried some Kimber cable. Even so, better follow Naim's advice.

### **SOUND QUALITY**

Naim has always laid great stress (with one-time collaborator Linn) on the foot-tapping aspect of hi-fi, and judged in those terms this combination has a lot to offer. That's to say that raw excitement is pretty well conveyed, at least in the right kind of music.

But... well, it too often seems to mean 'raw' as in raw skin that's been chapped. I would argue

passionately that a bit more of that in a lot of music-making would be no bad thing, but it's not the job of a reproduction system to generate it: adding rawness to the sound should never do much for the emotion. But that said, there are many who find it does.

Now, I don't want to give the impression that this equipment is as rough as the proverbial: it isn't. Upgrading to it from a typical budget integrated, for instance, would result in a considerable improvement in detail, frequency extension, soundstaging and so on. It's in the context of other thousandquid-plus gear that the character becomes more of an issue.

Take some big, romantic orchestration – a Brahms symphony, for instance. On a well loved recording by the archromantic Vienna Philharmonic, the Naim duo added a slight coarseness to the lower strings and some harshness on brass instruments which came between music and listener, reducing the sense of involvement and making it harder to maintain concentration over long periods. Big climaxes

tended to 'shout' and stereo imaging was definitely compressed in both directions.

> With pop and rock music the results are more favourable, but there's something of a compromise between the

undoubted drive of the rhythm and the lack of insight into complex sounds, a compromise which was highlighted by the superbly recorded album Trampoline by The Mavericks. Energy 110 per cent, but finer details of Raul Malo's voice and the imaginative scoring, more like 80 per cent.

### CONCLUSION

Almost certainly a large part of the blame for this sound must rest with the NAP180, which in the lab showed up the classic symptoms of crossover distortion.

Ultimately, though, it seems clear that the 'Naim sound' is a music thing. I once, at a show, heard a record by The Justified Ancients of Wotsit (KLF) sounding terrific through a Naim system but it's just the right kind of music for the job, with precious little in the way of subtlety.

Formal Recommendation would probably be out of place for such a niche product, but it has to be said that a lot of people, over the years, have liked and bought it. Give it a try at least. RB



### **ROTEL** RC-995/RB-991



# "Really deep bass is truly excellent, seeming to go down for ever and confident enough to keep its quality at any volume."

nent quality being a case in point. Still, it's all relative, and there's nothing remotely crummy about either amp. The casework is nothing special, for instance, but it's perfectly adequate for its task, doesn't bend when you pick the units up, and is well finished and free of sharp corners.

Newcastle), but there are areas

where costs have been cut in a way that most UK manufacturers

would studiously avoid, compo-

The power amp is arguably the more impressive of the pair, and manages to exude an air of refined muscle. A THX-approved design, it offers 200 Watts per channel (a spec it exceeds in practice) and accordingly contains a large and heavy toroidal transformer and a lot of heatsinks - the front panel heatsink is decorative: the real ones lurk within the case. Discrete bipolar transistors provide the urge. Unbalanced and balanced (XLR) inputs are provided, the balanced ones being unbalanced by an additional op-amp circuit which is likely in many situations to negate the advantage of balanced working.

The RC-995 has corresponding balanced outputs (balanced via yet another op-amp) alongside twin pairs of unbalanced ones. It also has seven inputs, including a phono stage that's switchable for MM or MC gain.

Input switching is via relays rather than switches, and the front-panel knobs in fact operate incremental encoders which control source selection indirectly, making for very user-friendly operation. The remote control is pretty funky, too.

### **SOUND QUALITY**

The basic balance of this combo is not wholly unlike that of Musical Fidelity's offering, favouring as it does the mid-to-upper bass regions. However, really deep bass is truly excellent, seeming to go down for ever and confident enough to keep its quality at any

volume level. Again, the only real problem with this bass warmness is that with some music it can seem to slow the pulse, making the drums appear to drag behind the beat, for instance, in jazz or rock. But this is very slight and should be set against the considerable excitement that the great extension can generate.

Listening to well-made classical recordings, it sometimes seemed that stereo imaging, while generally plausible, was just a little forward overall. That can often be caused by brightness in the sound, but it was hard to convince oneself that the treble was anything but neutral. And because the relative positions of instruments in the orchestra were kept accurate, the forward placing soon became a matter of little relevance.

Detail resolution is a little inconsistent. Big, heavy textures — big band, full orchestra, etc — do well with clear rendition of everything that's happening, but small and moderate ensembles aren't always quite so clean. It's more a question of the tone of individual instruments than their separation from each other, and a little investigation showed that this is almost entirely due to the preamp.

In fact, the power amp, with various other partnering preamps (the MF X-P100 seemed a good match), scored very highly indeed in this regard, combining an excellent grasp of the big picture with a real knack for small details such as isolated taps on a triangle. Evidently the preamp is slightly veiling the sound – particularly via the phono input, which is serviceable but not really up to the line stages where resolution is concerned.

Whatever may be causing that, it's not lack of bandwidth: the RC-995 passes the audio band and at least an octave either side with negligible deviation from flat response and the line stage reaches below 1Hz and above 1MHz with ease. The RB-991 also has a wide response and keeps distortion exceptionally low at all levels and frequencies.

### CONCLUSION

A few reservations, then, and those mostly about the preamp. However, the price looks very tempting indeed and the power amp is good enough, I think, to warrant a Best Buy tag – just upgrade the pre first!





10

### **TECHNICS** SU-C1010/SE-A1010

the front, that doesn't make it a throwback! But the similarities to some of the chunky amps of the '70s don't end there, as Technics has relied on multipin hybrid integrated circuits for the guts of the SE-A 1010, a once-popular technique which seems to be coming back (it never went away in car radios). And it's certainly allowed the Japanese giant to offer a lot for a little, with a rated power of 100 Watts

quite meet), two sets of speaker outputs and inputs at fixed or variable level. But don't use the fixed inputs with the variable ones set to minimum – it loads the preamp down unacceptably.

Meanwhile, the SU-C1010 has a fair bit of old-time flavour to it. Its most unusual feature is an internal rechargeable battery which can be used to power the audio sections of the circuit, although since the unit can't operate unless the mains supply is connected and switched on, most of the interference rejection advantage of battery operation is lost. There are seven inputs in all, including phono (MM) and a six-channel DVD/surround input, the latter being subject to the volume control but not the tone controls.

That front panel badge, 'VGCA', refers to the fact that the volume control affects the actual circuit gain rather than just attenuating the input, which gives a better signal-to-noise ratio - although it's not novel (the EAR 802 used the



### "Bass is certainly tuneful and, if it does ultimately lack some grunt, it's still strong enough to drive along convincingly."

trick in the early '80s, and doubtless others have too) and not as effective here as it might be.

Construction of both units is pure mass-market – considerably less deluxe than the Rotel amps, for instance. The preamp uses mainly op-amps in the signal path, although switching is at least via relays rather than electronic switches, which all too often degrade the sound markedly.

An unusual feature in the power amp is a cooling fan which cuts in whenever the output exceeds a few Watts for more than about half a second, and cuts out immediately the level drops. This both avoids the noise of the fan in quiet music and helps lengthen its life, and it seems to work perfectly well in practice.

### SOUND QUALITY

It might be tempting to approach these products with low expectations based on the price and appearance, but there's some good news here. You won't get the greatest transparency ever, but the basic tonality is neutral apart from a degree of bass-lightness.

Three main areas seem in need of improvement, and they're probably all down to much the same cause: there's sometimes a slight synthetic sheen on the sound, image depth is a little compressed and loud, thickly scored music can be a bit coarse and congested. In other words, essentially, detail is not wonderful.

However, much music comes through this combo sounding lively and wide-awake, and some notoriously tricky sounds in the upper treble, such as small percussion instruments and high woodwind, sound gratifyingly clear and open. Bass is certainly tuneful and, if it does ultimately lack some grunt, it's still strong enough to drive along a bit of rock'n'roll convincingly. Just occasionally there's a feeling that dynamics are being a bit squashed, mostly with complex sounds: simpler sounds such as solo piano fare better.

The phono stage is nothing special, but maintains a reasonable

semblance of detail. In fact, a little experimenting showed that the preamplifier generally seems more veiled-sounding than the

As far as measurements go, the power amp clips slightly unsymmetrically which will make for a 'thuddy' sound when it's really cranked up, but apart from that everything seems basically OK. The preamp's output is limited to 2V, so my advice would be to leave those variable inputs on the power amp alone or you may risk clipping the preamp prematurely.

### CONCLUSION

There's fair value here and, although the sound isn't stunning, it's never offensive. I suspect that the power amp could turn out to be a really nifty gadget in surround systems, where its low cost will make it a good 'un on surround channels.

However, I'd counsel trying to step up from the preamp.







# CONCLUSIONS PRE/POWER AMPS

his may only be a small test group, but in many ways it has turned out to cover a very great many hi-fi angles. We've had the traditional, big manufacturer, gizmo-laden cheapie (Technics), the original hard-nut audiophile with a defiantly individual outlook (Naim), the new independent (Musical Fidelity - not that new, I know, but certainly post-Naim), the middlegrounders (Rotel and NAD) and even a touch of the high-end behemoth (NAD's power amp). That's quite a cross-section, and they've arguably all behaved pretty much to type, too.

With the cheapest sample from Technics, the benefits of the separates approach are not entirely clear. Your money buys quite a lot of integrated amp, and there are some that offer similar output power and numbers of inputs. Manufacturers such as Arcam.

### "This may only be a small test group, but in many ways it has turned out to cover a very great many hi-fi angles."

Harman/Kardon and Denon all have a good reputation for such creatures, for instance. OK, there's the advantage of this particular system in terms of upgrading to surround, but that's still not a decisive attribute.

Rotel's system is considerably more expensive, but apart from the obvious additions (more than twice the power and an MC phono input) it really does move the game to a different league in terms of sheer sound quality.

Very few integrated amps out there will come close to this combination all round: a few of the better ones will match it for detail resolution, perhaps, but none I

can think of will combine that with similar power delivery. The preamp's a pretty good looking bit of kit, too - and that's an advantage I'm sure many will not overlook when comparing it with some of the large integrated amplifiers out there.

The remaining three systems come in pretty close together in price. Naim's amplifiers are aimed at a certain kind of audiophile principally, indeed, at existing owners of complete Naim systems. They're fine as far as they go, but just don't fit into the larger scheme of things as neatly as the other two. They also offer considerably less power, about a third:

power rating can be misleading, but a factor of three can certainly be significant.

That said, be sure you have speakers that can actually do something sensible with 200 Watts, and that you do actually listen that loud, if only occasionally!

Musical Fidelity has consistently scored well for its amplifiers, and the trio tested here are no exception. It's not the purest tonal balance ever, but both units show every sign of having real ability to open music up and make it more immediate for the listener.

NAD can do the same, and really the differences between the MF and NAD systems come down to a matter of personal taste as much as hi-fi absolutes (if there really are any of those). Hearing both will give any prospective purchaser food for thought. And on that note, it's over to you!

### THE BEST IN THE TEST



### **ROTEL RC-995/RB-991**

The RB-991 power amp is the real star here, with loads of power - and very refined power at that. Really top value, it is only slightly restrained by the RC-995, which slightly lacks detail but copes well with a wide variety of music.



### **MUSICAL FIDELITY** X-P100/X-A200

Additional flexibility offered by the only monoblock amps in this group, and a very engaging and listenable sound. Well matched to each other, the Nuvistaderived preamp and overgrown XA-A50 powers could form the heart of a very capable system.

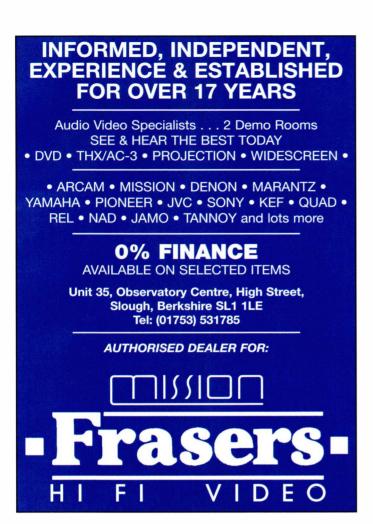


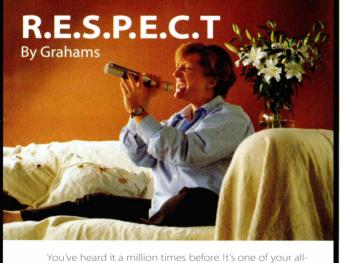
### NAD Silverline \$100/\$200

A stunning break with tradition by NAD, these two beauties offer flexibility, sound quality and some serious pride of ownership. Power with subtlety, good imaging and a winning way with the human voice all add up to a fine value package.

### PRE/POWER COMPARISON TABLE

| MAKE<br>MODEL              | MUSICAL FIDELITY X-P100/X-A200 | NAD<br>SILVERLINE S100/S200 | NAIM<br>NAC102/NAP180 | ROTEL<br>RC-995/RB-991 | TECHNICS<br>SU-C1010/SE-A1010 |
|----------------------------|--------------------------------|-----------------------------|-----------------------|------------------------|-------------------------------|
| PRICE                      | £800/£1,000 (pair)             | £600/£1,400                 | £1,000/£1,122         | £525/£600              | £299.99/£349.99               |
| SOUND                      | 00000                          | 00000                       | 00000                 | 00000                  | 00000                         |
| BUILD                      | 00000                          | 00000                       | 00000                 | 00000                  | 00000                         |
| VALUE                      | 00000                          | 00000                       | 00000                 | 00000                  | 00000                         |
| GUARANTEE                  | 5 years                        | 2 years                     | 1 year                | 2 years                | 1 year                        |
| SIZE (WXHXD, MM) PRE/POWER | 230x100x305/160x175x430        | 450x80x300/450x190x405      | 435x85x310/435x85x310 | 440x75x330/440x140x395 | 430x90x295/430x160x335        |
| WEIGHT PRE/POWER           | 3.5kg/7.5kg                    | 5kg/28kg                    | 6.5kg/11kg            | 6kg/18kg               | 4kg/9kg                       |
| RATED POWER                | 200W                           | 200W                        | 60W                   | 200W                   | 90W                           |
| NUMBER OF INPUTS           | 6                              | 7                           | 6                     | 7                      | 7                             |
| PHONO INPUT                | MM only                        | Optional                    | Optional              | MM/MC                  | MM only                       |





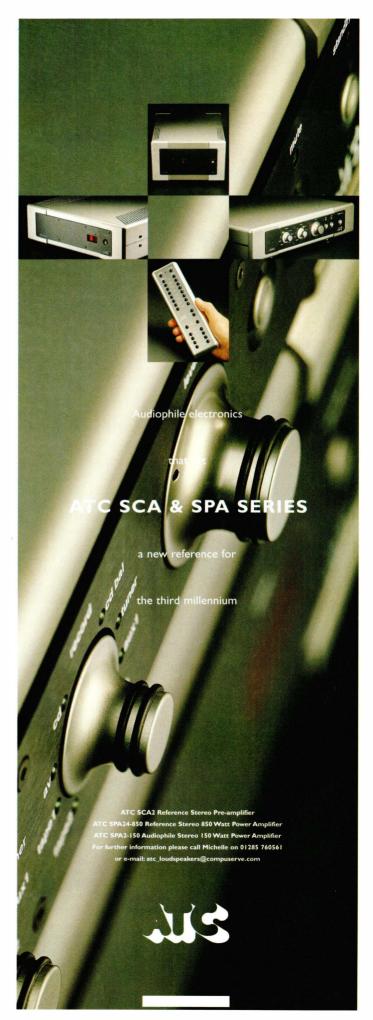
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# Sounds of Music Carfrae Zingali **ProAc** JM Labs Lumley **ATC**

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# SUPER TEST INTERCONNECT

Richard Black untangles the 'spaghetti' behind his kit to assess ten new connection cables.

### THE CAST LIST **Audioquest Coral** £99.00/1m **DNM Reson** £40.00/1m **Insert Audio Image 5.1** £84.95/1m Ixos 1000 £89.95/1m **QED Qnect Silver Spiral** £90.00/1m **SonicLink Violet** £85.00/1m **Straight Wire Encore II** £99.95/1m Tara Labs Prism 55-i £195.00/1m TCI Viper £54.99/1m van den Hul D102 MkIII £79.95/0.8m

nother year, another bunch of nother year, and interconnects... without wishing to sound too world-weary, it's demonstrable that cable development is no longer advancing in leaps and bounds the way it once did. Practically all the obvious combinations of materials and configurations - and quite a few that are far from obvious - have by been tried and the process is now one of relatively subtle honing of existing designs. Ever-purer copper is a case in point, with at least one manufacturer now using

### **GLOSSARY**

CAPACITANCE, RESISTANCE. **INDUCTANCE**: Electrical parameters of a cable. Low resistance is good, although it arguably doesn't matter that greatly in an interconnect. Capacitance and inductance vary in roughly inverse proportion and their importance for sound quality is subject to debate.

**COAXIAL:** The basic interconnect construction, with one conductor ('hot') surrounded first by insulation or 'dielectric', then by a twisted or braided screen which forms the ground conductor.

**BALANCED, PSEUDO-BALANCED:** In true balanced connection, the signal current travels out and back along two conductors beneath a separately connected screen. A phono plug hasn't got enough connections to support that, so in a pseudo-balanced cable the screen is connected to ground only at one end, giving electrostatic screening but avoiding signal current in the screen.

**SOLID CORE, STRANDED: Most** cables have several copper (or silver, or other) strands per conductor, twisted together. A few opt for single solid conductors to avoid alleged but unproven defects of stranded types.

eight nines (99.999999 this way: as has been repeatedly illustrated in these very per cent pure) copper. But there has been a pages, you get some highly worthy amplifiers and CD degree of convergence among manplayers at prices ufacturers in many wavs (obviously with exceptions such as the ever-maverick SonicLink). and this shows subjectively in the narrowing difference between makes. Even better, prices are doing what prices will when a market matures levelling out, even dropping, for Such products a given level of performance. Sure, will certainly have ample resoluthe silly money stuff is still there (I tion to show the improvements

"A good £250 CD player with a pair of £100 cables will more than outperform a £350 player with cheap'n'orrible cables."

past a grand), but apart from that it seems the performance that a couple of years ago might well have cost a good £150 is now not hard to find at less than £100.

stopped taking much interest

when prices for a set of cables got

It's therefore highly appropriate that for this group test we should be looking at cables in that ballpark. Now for many folks, a ton is still a fair chunk of money to blow on a pair of cables, but look at it

player, say, at £250, plus a pair of cables at £100, will more than outperform a £350 CD player with cheap'n'orrible cables.

due to decent cables. And it may

very well be that a really good CD

A good deal of cable sound and success is commonly said to be down to 'synergy'. I always feel that it is possible to place too much stress on that aspect. Part of the reason lies in the electronic relationship between a cable and

### **HOW THE TESTS WERE DONE**

he majority of listening was done with the cables connecting a Rotel RCD-971 CD player and an EAR 802 preamplifier, although other source components included a Sony DAT recorder, a Moth phono stage and a Revox FM tuner. Comparisons were done both 'quick-fire', with excerpts only a couple of minutes long, and at a more leisurely pace. Other equipment included EAR 519 power amps and speakers by ATC (SCM20) and Quad (original ESL).

THE TEST MUSIC

JOSÉ ANTONIO GUZMÁN: Ambrosio (Sonora SACD 101) GRAINGER: Piano music - Hamelin (Hyperion CDA66884) PENGUIN CAFE ORCHESTRA: Concert Program (Zopf ZOPFD 002) SOHO ELECTRIC: Wildin' ya funky spankin' (pre-release demo)

the components it connects. The vast majority of components have pretty similar output and/or input stages which will interact similarly with any given cable. Maybe that's why the 'sound' of a cable does, in fact, tend to be quite consistent

tems. There's always the argument that slightly bright amps may be tempered by slightly warm cables, but that's getting into a potential minefield.

between otherwise

different sys-

Still, there's always much to be said for testing any hi-fi component in your own system at home and this is where the specialist dealer comes in. These guys can really be more than worth their few per cent extra. Find a dealer who talks sense, ask for advice and try to arrange a home loan for a night or three. You'll find cable selection can even be fun!

### **HINTS & TIPS**

**CABLE MATCHING:** cables are generally somewhat dependent on the equipment they connect, both sending and receiving. It's wise, if possible, to try out any cable with the actual kit it will be linking. Although manufacturers would, of course, like to sell you matched interconnects and speaker cables, there's no strong reason to buy the two types from any one brand. **INTERFERENCE PICK-UP: shielded** cables are no more immune to this than unshielded - sometimes, indeed, less. Radio pick-up is often best treated with ferrite sleeves or clamps. Hum pick-up can usually be avoided by making sure cables are well away from mains cables and transformers. It also helps to twist left and right cables together and keep all your interconnects near each other if possible. Even gold-plated plugs can oxidise slightly. Every few months, pull cables out and reinsert them, which cleans contact faces.

CABLE BURN-IN: some folks swear it's real. I side with those who argue that over a few hours or days your ears get accustomed to the defects of any equipment and filter them out.

### **AUDIOQUEST** Coral

t may look like the flex from an iron, but there's actually quite a lot of technology in this interconnect. The novel feature is the use of 'Perfect Surface Copper', which involves plating copper on top of copper – sounds daft, but this kind

of process is known in physics labs for obtaining a very pure, very smooth surface.

Then there's the 'Triple Balanced' construction, which sounds great but in practice still only means pseudobalanced when phono connectors are used. The true benefits of Triple Balancing only appear when using XLR connectors, and even then only when connecting equipment with poor grounding design – but there's plenty of that about.

Audioquest's finest silver-plated copper phono plugs are fitted, and welded rather than soldered. Construction seems robust: shielding at the "It offers good performance at the frequency extremes, with solid yet clear bass and clean, effortless treble."



plugs could be improved, but it's as good as most.

### **SOUND QUALITY**

In what turned out to be a strong group of cables, this was one of the front runners. It offers good performance at the frequency extremes, with solid yet clear bass and clean, effortless treble. Detail is good going on very good, and tone is generally very neutral. Imaging also scores highly, but sometimes sounds – particularly solo voices – seem to come from surprisingly far forwards compared with many other cables. However, that's very subjective and hardly disturbing.

Large, complex sounds are for the most part well handled, and this gives the cable great assurance with orchestral material, heavy rock, big bands and the like. Perhaps the sense of bass drive isn't always the most solid, but at least the bass is never overpowering. Far more importantly, long-term listening is unfatiguing and rich in detail.

### CONCLUSION

With very little to criticise and excellent measured characteristics, albeit at a highish price, this cable seems to offer the sort of all-round performance that can be comfortably Recommended.

### **VERDICT** SOUND BUILD VALUE 00000 £99.00 Slightly forward imaging hardly detracts from its excellent tonal qualities and detail **■ LIFETIME GUARANTEE** ☑ Goldring Products, 8 Greyfriars Road, Bury St Edmunds, IP32 7SX **2** (01284) 701101 **SPECIFICATIONS** ■ Topology: 'Triple Balanced' (pseudo-bal) ■ Conductor: 'Perfect Surface Copper' ■ Dielectric: Foamed polythene

### **DNM** Reson

his is the classic solid-core cable and has been in production longer than most other hi-fi products currently on sale. What you see is what you get: two thin solid copper conductors, identical but for the colour of their insulation, spaced apart by a 'web' of polythene, with no screening.

Termination is in phono plugs which, apart from their gold plating, are about as cheap and cheerful as they come. Nevertheless, they are chosen by DNM for a reason — basically they have less metal in them than most other types.

DNM makes great play of its 'Field Effect' technology, which is all to do with the 'harmful effects' of magnetic fields associated with electric currents, and that includes magnetic fields set up by currents circulating in excessive amounts of metal. The hypothesis is open to question, and in fact it is arguable that a cable of this design actually maximises the magnetic field, but all those years in production would seem to suggest that subjectively DNM has it about right in the eyes (and ears) of many.

"No one musical style is favoured and the cable's uniquely low capacitance makes it suited to a wide variety of components."



### SOUND QUALITY

There's an important rider to all the following comments: because of its construction, this cable has very little resistance to RF interference pickup. While I've no reason to believe that my system is particularly prone to RF problems, no kit is fully immune and I live in an RF-rich inner city area. Moral: try at home before you buy if possible.

That said, this cable seemed just a little harsh in tone, particularly with busy treble material (trumpet, orchestral violins, female choir) which has a knockon effect in compromising imaging and detail at times. Bass and treble are generally well extended and simple musical material is admirably clean: it's the

big sounds that suffer most. No one musical style is particularly favoured and the cable's uniquely low capacitance makes it suited to the widest variety of components.

### CONCLUSION

Despite its unusual construction, sound quality is on a par with many dearer cables, and its price is very reasonable. It's certainly worth a try – hence Recommended.

### **VERDICT** SOUND BUILD VALUE PRICE £40.00 Seemed a little harsh in the test system, but can work well and should certainly be tried. ■ LIFETIME GUARANTEE ☑ Virtual Reality Audio Systems, P.O. Box 383, Brentwood, Essex, CM14 4GB ☎ (01277) 227355 **SPECIFICATIONS** ■ Topology: Spaced pair ■ Conductor: Solid copper ■ Dielectric: Polythene

## **INSERT AUDIO** Image 5.1

f the number 5.1 rings bells in the home cinema corner of your brain, that's about right - this cable is designed as the factorum of home entertainment. It can serve, says Insert, equally well for analogue or digital audio, composite video, component video, making the tea... sorry, got a bit carried away there.

Well, is this reasonable? Actually, yes – many folks have noticed that digital interconnects, in pairs, work very nicely for many analogue applications and the specification for digital is just the same as that for video. All you need is a nice, low loss 75 Ohm coaxial cable, and that's what this is.

Silver plated conductors, foamed PTFE dielectric, good, solid plugs and a flexible sheath make up the no-nonsense recipe, and it's good ol' sound engineering practice all the way. Sold singly for digital duty (and the rest), this cable costs £45 for each 1m (terminated) length.

## "Detail in the midrange and treble is really in the top league, with very good stereo imaging, including depth."



### SOUND QUALITY

If there's a weakness with this cable it's the bass which, although detailed, sometimes seems a little distant and understated. Be it thumping or subtle, any bass that comes along is very subtly curtailed. But I do mean subtly, and it's only really noticeable in quick-fire comparisons with other cables: leave Image 5.1 in the system for half an hour or so and one adapts completely to its balance.

Otherwise it's really good news all the way. with detail in the midrange and treble really in the top league and very good stereo imaging, including depth. Driving rhythms are clear and convincing, gentle

ballads peaceful and unforced aided by an apparently quieter background than at least some other cables. Tonal quality on voices is not quite the roundest (this is doubtless due to the bass lightness) but then, that can be positively advantageous with some plummy loudspeakers.

#### CONCLUSION

A well judged cable that sets out to deliver everything and seems to succeed. Recommended.



## **IXOS** 1000

ith an outer diameter of 10mm, this cable will certainly appeal to those who like their hi-fi chunky. It's actually quite flexible and extremely robustly fitted to the phono plugs (nice ones, with a split centre pin for tighter contact), and utilises Ixos' rather controversial 'Gamma Geometry', a not-quite-twisted-pair construction that's actually

woven over a 'dummy' insulator core. Any cable fitted with phono plugs can only ever be pseudo-balanced, but it should still give an improvement in rejection of magnetic interference

Electrostatic interference is kept at bay by a tightly braided screen. Ixos has also fitted an interference-blocking ferrite ring inside the phono plug at the receiving end. It's tiny, and being inside the plug will further limit its effectiveness, but it can't hurt.

### SOUND QUALITY

Reactions to this contestant were a bit mixed. Perhaps the most damning word in my listening notes was 'bland' – hardly a

## "The best results came with simpler music such as voice and piano, where the performers were clearly delineated."

flattering adjective if one's the least bit passionate about music and



sound. That one was applied in the context of some jazz trumpet, which lost some of its edge and bite and, hence, excitement. By contrast, a

big orchestral climax with plenty of percussion seemed if anything rather over-bright, even to the extent of being a little rough.

Clearly, the symptoms of this cable's malaise depend in detail upon the kind of sound it's passing, but it somehow never quite gels.

Everything's quite good bass goes a pretty long way down, treble on the whole does not seem unduly limited, detail is moderate to good, imaging fair but not quite as precise or as widespread as the best. No one area is poor and the overall result is actually perfectly listenable, just not utterly convincing. The best results came with

simpler music such as voice and piano, where the performers were clearly delineated. Add too many layers, though, and some muddle soon creeps in.

#### CONCLUSION

The lab test results all look fine, but in this group of (mostly very capable) cables this one failed to shine sonically.

| VERDICT  |        |  |  |
|--|--------|--|--|
| SOUND  | 00000  |  |  |
| BUILD  | 00000  |  |  |
| VALUE  | 00000  |  |  |
| PRICE  | £89.95 |  |  |
| Nothing badly wrong here, just a little              |        |  |  |
| bit bland and outshone by others at a similar price. |        |  |  |
| LIFETIME GUARANTEE                                   |        |  |  |
| ☑ Path Group, Unit 2, Desborough Industrial          |        |  |  |
| Park, Desborough Park Road, High Wycombe,            |        |  |  |
| Bucks, HP12 3BG                                      |        |  |  |
| <b>2</b> (01494) 441736                              |        |  |  |

#### **SPECIFICATIONS**

- Topology: 'Gamma Geometry', screened
- Conductor: Silver plated OFC
- Dielectric: Fluoropolymer

March 2000 HI-FI CHOICE 73



# audio•T

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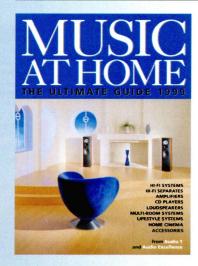
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# **QED** Qnect Silver Spiral

he geometry of this cable is both novel – as far as I can remember – and rather cunning. That spiral consists of two coaxial cables, each with silverplated conductors and dual (tape and braid) screen, with a couple of filler threads there to hold everything in place.

The two coaxials are joined together at both ends, giving the basic electrical characteristics of a single coaxial cable, albeit with rather high capacitance more than four times that of several cables

in this test. However, twisting the coaxial elements in this way is likely to give slightly better magnetic interference rejection than a single coaxial can manage,

"One can really feel the sweep towards a big musical climax, with little or no veiling of detail or loss of frequency extremes."

in a similar way to pseudo-balanced construction

It's a compromise: current still flows in the screen and performance

will certainly not be as good as a true balanced connection, but at least the screen is truly continuous. It would be interesting to see some really detailed tests of interference rejection comparing this and other types of construction.

Assembly is to QED's usual high standards, with particularly good phono plugs, split centre pin and all.

#### SOUND QUALITY

Subjective results would seem to vindicate QED's design. The sound through this cable is good in all areas, with the only complaint being of some occasional, and slight, dryness and sibilance on voices, particularly male ones. However, bucking the trend for characteristics of that nature to worsen with increasing musical complexity and level, things actually improve as more instruments join in, making this a fine choice for lovers of big symphonies, opera and progressive rock.

One can really feel the sweep towards a big musical climax, with little or no veiling of detail or loss of frequency extremes. And in smaller groups the instruments are clearly picked out and, for the most part, rendered with natural tone and good stereo positioning.

#### CONCLUSION

Another good 'un from QED suited to most situations bar use in long runs from a passive preamp. Recommended. RB



## **SONICLINK** Violet

HI FI CHOICE

e tested (and recommended) the Violet almost 100 issues ago, but times have changed, even in the world of cables. How will it fare now?

But for the funky colour, one might think that this cable is one of several on the market simply taken from the catalogue of some aircraftgrade data cable manufacturer. However, I don't think any of them uses nickel as a

conductor, as SonicLink does in this case.

Designer Graham Nalty is a great proponent of unusual materials for cables, both conductors and insulators although this particular cable uses relatively conventional fluoropolymer insulation. Nickel is not, to most people, an obvious choice for electrical conductor duty, because its resistance is about five times that of copper: not only that, but it's ferromagnetic, which makes the infamous 'skin effect' much more pronounced. In fact,

## "The Violet got off to a flying start with some Mahler: lots of deep bass, impeccably reproduced."

this is the only cable in which I've been able to measure it with confidencel

SONICLINK

\*\*\*\*

This cable is an otherwise conventional enough pseudo-balanced design, thin but quite springy, fitted with decent phono plugs.

## SOUND QUALITY

Violet got off to a flying start with some Mahler: lots of deep bass, impeccably reproduced. The bottom octaves are full, rich and clear, without smudging or over-emphasis, unfazed by anything noteworthy higher up the spectrum.

But as for what happens to those higher sounds... well, they're often not quite so happy. It's that old cable bugbear, a suggestion of hardness and dryness affecting instruments that should be nicely rounded in the midband and clear as a bell in the treble - human voice, orchestral violins, alto sax,

small percussion instruments. At the same time, stereo imaging suffers, particularly in the depth direction. However, detail within complex sounds is generally good.

#### CONCLUSION

Measured results are a bit unusual due to the nickel conductors, but I'd hesitate to ascribe its sound entirely to its high resistance. However, in this company it's not truly in the top flight.

| SOUND  BUILD  VALUE  E85.00  Better bass than treble – a little dry in the upper octaves  TWO YEAR GUARANTEE  SonicLink, Derwent Business Centre, Clarke Street, Derby, DE1 2BU  (01332) 361390 |
|---|
| VALUE  PRICE  £85.00  Better bass than treble – a little dry in the upper octaves  TWO YEAR GUARANTEE  SonicLink, Derwent Business Centre, Clarke Street, Derby, DE1 2BU  (01332) 361390        |
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| ☑ SonicLink, Derwent Business Centre,<br>Clarke Street, Derby, DE1 2BU<br>② (01332) 361390  |
|   |
| SPECIFICATIONS  |
| ■ Topology: Pseudo-balanced   |
| Conductor: Nickel   |
| ■ Dielectric: PTFE  |

March 2000 HI-FI CHOICE 75

## **STRAIGHT WIRE** Encore II

he cable itself is quite attractive, but it's the packaging that wins my 'beauty' vote it's in the shape of a treble clef. Very clever.

Technically, this is a pseudo-balanced star-quad cable: this means

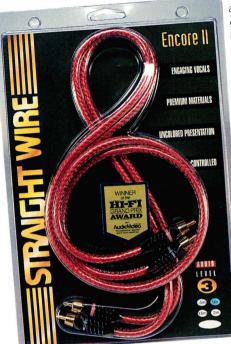
that there are four conductors twisted instead of just two, giving a slight improvement on the basic twisted pair principle.

It's the usual sort of recipe, with high purity copper and low-loss insulation, a tape and braid screen to keep out interference and a fabric braid over the top to 'dampen' mechanical resonances and reduce microphonics. something which is doubtless further aided by the soft PVC outer jacket. The plugs are quality fare too, having a split centre pin and a nice, grippable barrel.

#### SOUND QUALITY

The sound of this cable seemed to improve through the main listening period. I

"Give it thumping bass along the lines of eight orchestral double basses or a good danceable beat and it'll do the business."



almost thought that I'd at last discovered evidence of cable burn-in, but it turned out that I'd started, purely by chance, with Encore's Achilles Heel – deep but subtle bass. Give it thumping bass along the lines of eight orchestral double basses or a good danceable beat and it'll do the business willingly enough, but the cable seems a little shy of a lone plucked bass, jazzstyle, or quiet piano.

That apart, there's nothing seriously amiss here: a little dryness from time to time on instruments rich in harmonics such as trumpet and harpsichord, and perhaps a degree of front-to-back image compression, but no problems with detail or handling of dense climaxes.

This makes it something of a music-specific cable, and it's likely to prove near ideal for

lovers of most pop music genres: maybe a little less so for jazz folks and those tending towards the chamber-music end of classical.

#### CONCLUSION

Measured capacitance is highish but not problematic, and everything else is fine. In any other company, withholding a gong from this cable would seem a little churlish, but it's facing stiff competition in this group, at this price and therefore just misses the mark.

| VER   | DICT                                |
|---|-------------------------------------|
| SOUND   | 00000                               |
| BUILD   | 00000                               |
| VALUE   | 00000                               |
| PRICE   | £99.95                              |
| weakness in this ot ■ TWO YEAR GUA  ☑ CSE, Unit 9, Centr Airfield, Tockwith, Yor ② (01423) 359054 | e Park Holdings, The<br>ks, YO5 8QF |
| SPECIF  | ICATIONS                            |
| <ul><li>■ Topology: Pseudo</li><li>■ Conductor: OFC</li><li>■ Dielectric: Foame</li></ul>         | d polypropylene                     |

# TARA LABS Prism 55-i

ara Labs is an American company with a broad range of cables in its bulging portfolio. Prism accounts for the most affordable end of the brand's scale, so you won't be surprised to hear that its more ambitious offerings break the two thousand pound mark.

Tara's extensive literature boasts of 'eight nines' copper (that's stateof-the-art pure or 99.9999999 per

cent if you want to be pedantic), low-loss insulation and solidcore construction. However, no one has yet proved or disproved conclusively that these things actually matter.

Meanwhile, the pseudo-balanced construction is conventional enough, and the 55-i - the top interconnect of six in Tara's Prism range – has a good stout screen, good phono plugs and cotton filler to prevent undue kinking of the conductors, although that also contrives to add some capacitance loss factor, the

"It has its good points, not least an extended and pleasingly rounded bass and a sure hand with difficult instruments."

parameter which I would argue has the strongest correlation with sound quality.



SOUND QUALITY Considering that this is by far the

dearest cable here, it's disappoint-

ing that it fails to trump the others. It has its good points, not least an extended and pleasingly rounded bass and a sure hand with the tone of difficult instruments like trumpet and oboe, but it's not the most detailed sound to be had.

The bass is slightly woolly, for a start, which can also lead to driving rhythms sounding very slightly leaden and slow, and overall there's a feeling that although detail is basically all there it needs a bit of aural exercise to find it it's not there for the taking but needs digging out. As so often, some music works better than others

and gentle jazz comes up smiling, as does most laid-back material. The exciting stuff is less convincing. Dynamically there's no problem, with scale kept intact across a wide range, but the sound does tend to harden a bit as the volume rises.

#### CONCLUSION

Fairly typical measurements imply no compatibility problems, but the sound lacks the all-round excellence needed for Recommendation.

#### **VERDICT** SOUND 00000 BUILD VALUE PRICE £195.00 Good with laid-back music, but seems lazy with more exciting material. ■ LIFETIME GUARANTEE Sound Image UK, 52 Milton Road, London, SW14 8JR **2** (020) 8255 6868 **SPECIFICATIONS** ■ Topology: Pseudo-balanced ■ Conductor: Solid OFC ■ Dielectric: 'Aero PE'

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VAN

DEN HUL

# **TCI** Viper

rue Colour Industries is a youngish audio cables specialist based in Belfast. The company literature is relatively modest and claims no bizarre or implausible qualities for its cables: in fact, Viper is a simple pseudo-balanced

cable using two stranded conductors, low-loss insulation and a braided screen

An unusual luxury at this price is the inclusion of locking phono plugs which, together with their split earth pin, give about as good a contact as one can make on a standard phono socket. Quality of construction is good, and with its moderate size and soft sheath the cable handles well.

#### SOUND QUALITY

Although one of the cheaper interconnects in this group, the Viper was subjectively among the most successful. If it has a weakness it's the treble. where the slightest hint of

"The tonal palette remained in proportion through all the changes in dynamics of any kind of music I could find to throw at it."



sibilance creeps in on vocal solos and orchestral violins can sometimes sound a little hard and unforgiving. Apart from that minor quibble, the sound is admirable all round.

Bass is particularly extended, clean and detailed be it subtle as in dinner iazz or massive as in reggae, and the tonal palette remained in proportion through all the various changes in dynamics of any kind of music I could find to throw at it.

Imaging is good, with a particularly demanding passage from an opera. one of my regular imaging references, showing fine differentiation between near and far sounds and excellent lateral spread. Finally, tricky percussive

instruments like triangle and xylophone showed that, despite the slight reservations noted above about treble, simpler sounds have a pleasingly airy quality.

#### CONCLUSION

In measured terms, this cable has slightly above-average capacitance, but nothing worrying or remarkable. At its price it seems very fine value and should be a Best Buy.



■ Conductor: Silver-plated OFC

■ Dielectric: Polythene

## **VAN DEN HUL** D102 MkIII

ost cable manufacturers make great claims for their choice of materials. but few take the business as far as van den Hul. Most radical is the use of the company's trademarked Linear Structured Carbon – basically,

carbon fibres. Some of the really alarmingly expensive cables use only LSC, but this one is a hybrid, combining silverplated copper and LSC to give a combination of the former's low resistance and the latter's lack of 'metallic sound'.

Also on the materials front, the sheath is of halogen-free 'Hulliflex', a more environmentallyfriendly compound than PVC which also allegedly gives better protection against atmospheric pollutants. It certainly makes for a conveniently flexible cable, and looks very smart.

Good quality collet-type phono plugs with a split centre pin are used, and the insulation is a low-loss type. A

"Imaging is good, dynamics are wide and assured, and tone remains true on any kind of music."



pseudo-balanced type, this cable was supplied for review as a 0.8m pair (all others were 1m).

#### SOUND QUALITY

It's unusual for vdH to produce a dog of a cable... and this certainly isn't one. Actually, I seem to have reviewed this one once before, a couple of years ago, when it led the pack. Assuming it hasn't changed since then (and I'm still using most of the same equipment with it), the overall standard of cables coming my way must have risen a little, since it no longer seems to shine with quite the same brilliance.

There's no doubting the assurance of its bass or the extension and sweetness of its treble, but on the detail front it is equalled, perhaps even slightly bettered, by a couple of others here. Imaging is

good, dynamics are wide and assured, and tone remains true on any kind of music, but the ability to hear into the middle of a mix is not absolutely the best.

#### CONCLUSION

All that said, this is still a very good cable, and its middle-of-the-road electrical parameters make it broadly compatible. It is therefore Recommended.

| SOUND | 00000                   |
|-------|-------------------------|
| BUILD | 00000                   |
| VALUE | 00000                   |
| PRICE | £79.95                  |
| _     |                         |
|       | erivale, Middx, UB6 7JJ |

■ Topology: Pseudo-balanced

copper and LSC

■ Conductor: Hybrid silver-plated

■ Dielectric: Foamed polythene

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# CONCLUSIONS NTERCONNECTS

his has turned out to be one of those groups where almost every product could probably have merited a gong if tested in other company. None of these cables is by any reckoning 'bad', and although there have been a few cables around over the years which were pretty, er, strange, it's nice to think that natural selection might have seen most of those off by now. This has been a group distinguished largely by its allround high level of achievement.

Nevertheless, there are still differences to justify a little searching

out among products. I'm sometimes asked what kind of differences one should particularly listen out for when comparing cables. (That's not a stupid question: just as, for instance, an experienced garage mechanic will quickly spot the fault on an old car that would gradually drive a day-to-day driver to distraction, so the business of listening out for audible deficiencies can perfectly well be learned.)

I find that one of the best tests is stereo imaging, especially in the front-to-back direction - but of

course, that requires a recording that is really good in that sense, and they're pretty rare. Also helpful is something with deep but subtle bass (listen for the definition of pitch and the 'body' of the sound), and one can tell a lot about a cable's detail by listening to a big orchestral crescendo from soft to full-on, preferably complete with percussion: many cables will squash the sound together spatially, texturally and dynamically as it grows.

These are quite subtle areas, but they can have a major overall effect on how music sounds over a long listening period, so in a very real sense they can make or break a system. On the other hand, comparing the ten cables in this group, plus a small handful of long-term references of varying quality, definitely suggested that most of them are not only relatively similar, but good in absolute terms.

It may be a statistical blip, but it seems to point to a moral: the 'wrong' cable decision is unlikely to be *horribly* wrong. In other words, don't panic.



#### **TCI** Viper Lovely, rich bass and extended treble with the merest hint of sibilance. Great imaging and that ideal 'airy' quality on

- good price, too!

delicate percussion mark this out as a true winner



#### **AUDIOQUEST** Coral

This cable's imaging can be a little forward, but it

has a pleasing, listenable quality and is very confident with large-scale sounds. Clean, extended treble is a bonus



#### **DNM** Reson

Unscreened and therefore potentially vulnerable to RF interference, which may explain a degree of harshness in the test system. However, it's very neutral tonally and offers good value.



## **INSERT AUDIO**

Image 5.1 A cable for all seasons, fit for audio, digital and

video duty. Its only drawback is very slightly light bass: otherwise it offers fine detail and tonality and good stereo imaging.



**Qnect Silver Spiral** An unusual design which revels in bold musical sweeps. It can seem a touch dry-sounding, but has a firm grasp over the full frequency spectrum and bags of detail.



#### AN DEN HUL

D102 MkIII A cable fully capable of

exploring the outer reaches of the audio spectrum, although detail, while good, is not always the uttermost. A well balanced performer.

#### INTERCONNECTS COMPARISON TABLE

| MAKE       | AUDIOQUEST               | DNM                            | INSERT AUDIO                      | IXOS              | QED                      |
|------------|--------------------------|--------------------------------|-----------------------------------|-------------------|--------------------------|
| MODEL      | CORAL HI                 | ICHOICE RESON HIF              | ICHOICE IMAGE 5.1 HIFICHO         | GS1000            | QNECT SILVER SPIRAL HIFI |
| PRICE      | £99.00                   | E40.00                         | MMENDED E84.95                    | £89.95            | £90.00                   |
| SOUND      | 00000                    | 00000                          | 00000                             | 00000             | 00000                    |
| BUILD      | 00000                    | 00000                          | 00000                             | 00000             | 00000                    |
| VALUE      | 00000                    | 00000                          | 00000                             | 00000             | 00000                    |
| GUARANTEE  | Lifetime                 | Lifetime                       | Lifetime                          | Lifetime          | 2 year                   |
| TOPOLOGY   | Pseudo-balanced          | Spaced pair                    | Coaxial Screened 'Gamma Geometry' | Dual coaxial      | Dual coaxial             |
| CONDUCTOR  | 'Perfect Surface Copper' | Solid copper Silver-plated OFC | Silver-plated OFC                 | Silver-plated OFC | Silver-plated OFC        |
| DIELECTRIC | Foamed polythene         | Polythene                      | Foamed PTFE                       | Fluoropolymer     | Foamed polythene         |

#### RCONN COMPARISON

| MAKE       | SONIC LINK      | STRAIGHT WIRE             | TARA LABS       | TCI               | VAN DEN HUL           |
|------------|-----------------|---------------------------|-----------------|-------------------|-----------------------|
| MODEL      | VIOLET          | ENCORE II                 | PRISM 55-I      | VIPER - MHICH     | DIO2 MKIII HIFICH     |
| PRICE      | £85.00          | £99.95                    | £195.00         | £54.99            | £79.95 (0.8m)         |
| SOUND      | 00000           | 00000                     | 00000           | 00000             | 00000                 |
| BUILD      | 00000           | 00000                     | 00000           | 00000             | 00000                 |
| VALUE      | 00000           | 00000                     | 00000           | 00000             | 00000                 |
| GUARANTEE  | 2 years         | 2 years                   | Lifetime        | 3 years           | Lifetime              |
| TOPOLOGY   | Pseudo-balanced | Pseudo-balanced star-quad | Pseudo-balanced | Pseudo-balanced   | Pseudo-balanced       |
| CONDUCTOR  | Nickel          | Oxygen-Free Copper        | Solid-core OFC  | Silver-plated OFC | Hybrid SPC and carbon |
| DIELECTRIC | PTFE            | Polypropylene             | 'Aero PE'       | Polythene         | Foamed polythene      |



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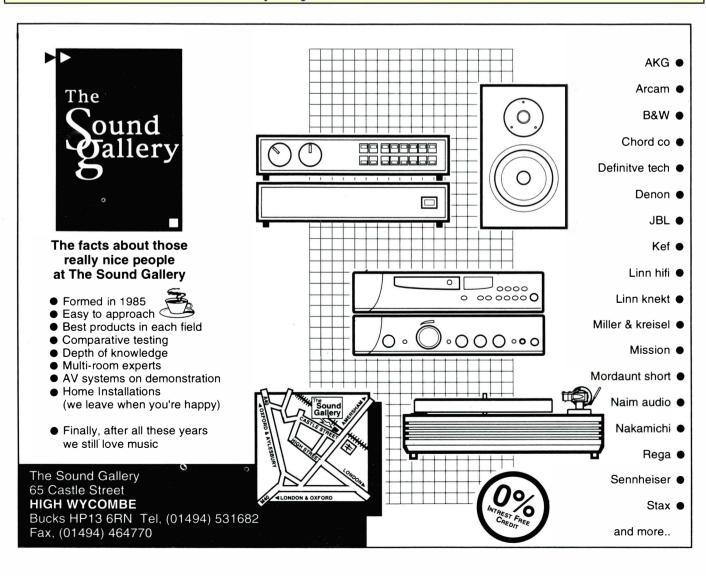
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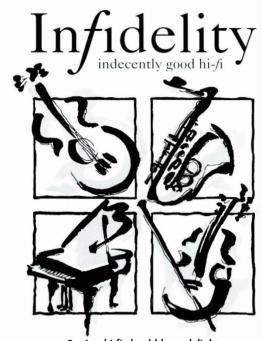
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# **YOURS FAITHFULLY**

Musical Fidelity says its new pre/power amplifier is the best it has ever designed. Tim Bowern takes a look at the brand's history and concludes: the best is yet to come.

f power corrupts, Anthony Michaelson is going straight to hell. The man behind Musical Fidelity has turned out some of the UK's most powerful audiophile amps in his time, ploughing a distinctive furrow since he began tinkering with hi-fi on a kitchen table in 1981. It was a hobby at first, a project he slaved over in his spare time and gradually built into a business with the help of loans from his wife, his mother-in-law and his ever-faithful credit card. He went full-time at the end of '82, and Musical Fidelity was born a company forever entwined with the legend of British hi-fi.

The firm's first product was The Preamp, a budget model forged from the maxim, "high-end performance at a modest price". The Power Amp followed, then in 1985 came Musical Fidelity's landmark design: the A1integrated amplifier. This brought with it world renown, and became one of the biggest-selling components in the history of high-end hi-fi. From this platform the brand sprang forward, creating new product lines and selling its booty until the decade drew to a close.

In 1990, things changed.
Musical Fidelity's kit had been
deliberately engineered to sound
sweet, but this approach no longer
garnered the acclaim it once did,
and the company's financial fortunes took a turn for the worse.
Time for a rethink: absolute neutrality became the sonic goal.
Then, in 1995, a new concept was
launched that would mould the
brand's future – the
X-10D was a valvebased product
designed to sit

it was housed in a onepiece aluminium extrusion, a cost-effective way of producing a rigid metal case, and sold more than 100,000 units world-wide.

between a CD player

and an amp. Crucially,

More products arrived using the same technique, creating the familiar and hugely successful 'X' range, now in its second generation. But while many punters adore these products for their cylindrical and ovoid shapes, others prefer to stick with traditional



rectangular boxes. For these individuals, Michaelson created the 'A' range. Launched last year, this rapidly expanding line uses technology derived from existing 'X' and NuVista products, then adds a twist. A CD player and two integrated amps are already out, and there's plenty more to come.

#### THE A3<sup>CR</sup>

Which brings us to MF's latest products – a preamp and a power amp, now joining the A3 range

price have nothing to do with true high-end hi-fi, so he turned the list on its head.

"I decided to take the gloves off and develop the best sounding products we could,"

he says. "Then we had to find a way to make them at viable cost."

The 'CR' is an abbreviation of 'choke regulation'; a technology

## MF's A3<sup>cr</sup> preamp (above) and in the altogether (left).

championing his own creations, yet his confidence in the A3<sup>CR</sup> combo is astounding even for him. He describes

the preamp as "the best we've ever made", while the power amp is "as good as any within its power limits, at any price". Both are designed to handle SACD-type bandwidths out to 100kHz, while the power amp is rated at a suitably hefty 160 Watts per channel. And the price? £999.

## "I decided to take the gloves off and develop the best sounding products we could."

under the 'CR' suffix. The aim was simple: "to offer some of the best technical and sonic performance to be found anywhere in the world, regardless of price". Before work could begin, the company asked: "what makes an amp highend?" Its conclusion, starting with the most important factor, was: brand image, physical attributes, price, sound and technical perfor-

mance. However, as Michaelson says, cosmetics, glitz, hype and

> MF's A3<sup>cR</sup> power amp (below) and what goes on inside (left).

used in Musical Fidelity's magnificent NuVista 300 power amp and originally culled from the world of valves. It refers to the dual-mono power supply configuration of both pre and power amps, which use a mix of conventional reservoir capacitors with choke regulation (a large coil or transformer). This provides an additional "reservoir" of energy, while reducing the sort of ripple commonly associated with huge power supplies, and clarifying the interaction between power supply and circuit.

The claimed result is vastly superior fine detail. "All you hear are the notes and the arena. Nothing else," Michaelson says.

He's never been shy about

#### THE FUTURE

In the field of electronics, no British hi-fi company has been more prolific in the past few years. The MF portfolio continues to expand at speed, with new products arriving at an almost monthly rate. Come the summer, we'll hear its first foray into multichannel realms, with a preamp and five-channel power amp due for launch in July. Then, in September, there's the enticing prospect of a Musical Fidelity NuVista SACD player. Yum.

"Our religion is music and hi-fi," says Michaelson, grabbing the last word (as usual). "Our aim is to deliver high-end performance at a price people can afford. That is our mantra."





# crystal clear

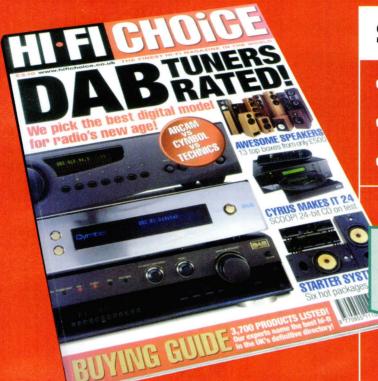




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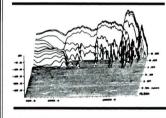
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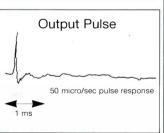
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| S5TL GOLD | Audax 10", 5" HDA mid, Gold treb | 1080x320x400 | £565.56  | £11.00 |

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|--|--|---|
| Sony MD74£1.35<br>TDK MD74£1.35                              | TDK 74mins£1.45  | TDK - all lengths available           D90   |
| BASF MD74£1.15<br>Maxell MD74£1.25<br>Samsung MD74from £0.99 | Traxdata 74mins£1.25<br>Samsung 74mins£1.25<br>Unbranded 74mins£0.89 | \$A-X90£1.39<br>MA90£1.75   |
| Sony MD80£1.99<br>TDK MD80£1.99                              | Traxdata 80mins£1.35<br>Traxdata CD-RW74£2.95<br>COMPUTER DATA CD-Rs | Maxell - call for all lengths           UR90         £0.59           UDII90         £0.85 |
| Sony ES74  | Unbrandedfrom £0.69<br>Brandedfrom £0.79                             | XL-IIS90 £1.29<br>CD90 £1.49<br>Short Length Cassettes<br>Phone for details               |
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# HOW TO USE THE BUYERS' GUIDE

#### **Best Buys, Recommendations & Editor's Choices**

- **BEST BUYS:** Awarded to group-tested products which display an unbeatable blend of performance and value for money.
- **RECOMMENDED:** Top performers in group tests: perhaps not the cheapest but possibly more sophisticated than Best Buys.
- **EDITOR'S CHOICE:** Components which have outstanding sound quality but do not qualify for BB or R because of non group testing.

### **Our Three Step Guide to Buying Hi-Fi**

The *Hi-Fi Choice* Price Guide and Directory are extremely simple to use, but contain all the information you need to select and buy the perfect hi-fi system. Here's how it works.

**DISCOVER** which products fall within your budget by using our Price Guide, which starts on this page. The product listing is updated using manufacturers' data every other month, and aims to include every hi-fi component currently available in the UK. (But please fax us on (020) 7317 2686 with any omissions!) It is an alphabetical listing divided into different types of hi-fi component, and also into price bands.

**PRODUCTS** whose names are printed in RED are those we have reviewed, which you can read about in the Directory (starts after the Price Guide). Here you will learn which items have been

singled out for our famous Best Buy, Recommended or Editor's Choice awards, denoting products of exceptional quality and value. The Directory is sorted by product type and listed alphabetically, and the beginning of each section provides essential information about each kind of hi-fi component.

FIND your nearest hi-fi store in our Dealer Directory (at the end of the Directory) to book a demonstration of the hi-fi equipment you want to hear. Remember to take your own software!

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## AMPLIFIERS INTEGRATED

KEY

**⑤** − Number of line-level inputs. '20W'− Rated RMS output power per channel into a nominal 8 Ohm load.

|  | 0 |  |
|--|---|--|
|  |   |  |

| Arcam Alpha One                   | 0 | 35W        | 230        |
|-----------------------------------|---|------------|------------|
| Ariston AX910                     | 0 | 30W        | 60         |
| Cambridge A1 Mk III               | 0 | 30W        | 100        |
| Cambridge A1 Mk3 SE               | 0 | 30W        | 120        |
| Cambridge A100                    | 0 | 40W        | 140        |
| Cambridge A300                    | 0 | 40W        | 150        |
| Cambridge A31                     | 0 | 60W        | 200        |
| Cambridge A500RC                  | 0 | 50W        | 200        |
| Denon PMA-250SE                   | 0 | 30W        | 140        |
| Denon PMA-350SE<br>Denon PMA-535R | 6 | 50W        | 180        |
| Denon PMA-100M                    |   | 50W        | 230        |
| Goodmans Delta 900A               | 0 | 80W        | 130        |
| H/K HK630                         | 0 | 100W       | 200        |
| H/K HK3270                        | 3 | 40W<br>65W | 250        |
| JVC AX-A372BK                     | 6 | 40W        | 200        |
| JVC AX-R5BK                       | 6 | 45W        | 200        |
| Kenwood KA-1080                   | 0 | 60W        | 140        |
| Kenwood KA-3080R                  | 0 | 70W        | 170        |
| Kenwood KAF-3010R                 | 0 | 70W        | 180        |
| Marantz PM-48                     | 0 | 50W        | 150        |
| Marantz PM-57                     | 0 | 50W        | 200        |
| Marantz SR-47                     | 0 | 40W        | 200        |
| Marantz PM6010 OSE                | 0 | 50W        | 230        |
| Marantz PM-66SE                   | 0 | 50W        | 230        |
| Musical Fidelity E1               | 0 | 30W        | 199        |
| NAD 310                           | 0 | 20W        | 100        |
| NAD C320                          | 0 | 40W        | 200        |
| NAD 312                           | 0 | 25W        | 200        |
| Pioneer A-105                     | 0 | 30W        | 130        |
| Pioneer A-204R                    | 0 | 25W        | 160        |
| Pioneer A-300R                    | 0 | 50W        | 200        |
| Pioneer A-305R                    | 0 | 50W        | 200        |
| Pioneer A-407R                    | 0 | 45W        | 230        |
| Pioneer A-405R                    | 0 | 45W        | 250        |
| Rotel RA921<br>Rotel RA931        | 0 | 20W        | 100        |
| Rotel RA971 Mk II                 | 0 | 35W        | 150<br>225 |
| Sansui AUX-410R                   | 6 | 60W        | 150        |
| Sansui AUX-510R                   | 0 | 50W        | 230        |
| Sherwood AX 4050R                 | 6 | 70W<br>50W | 150        |
| Sherwood AX-7030R                 | 6 | 95W        | 230        |
| Sony TA-FE230                     | 6 | 40W        | 100        |
| Sony TA-FE330R                    | 0 | 60W        | 130        |
| Sony TA-FB730R                    | 0 | 40W        | 200        |
| Teac A-E2000                      | 0 | 50W        | 180        |
| Teac A-R600                       | 0 | 90W        | 200        |
| Technics SU-V300                  | 0 | 25W        | 130        |
| Technics SU-V500                  | 0 | 30W        | 160        |
| Technics SU-A600 Mk3              | 0 | 37W        | 200        |
| Technics SU-V620                  | 0 | 70W        | 230        |
| Technics SU-A707                  | 0 | 70W        | 250        |
| Technics SU-A700 Mk3              | 0 | 45W        | 250        |
| Yamaha AX-392                     | 0 | 60W        | 170        |
| COT1 TO COO                       |   |            | 1600       |
| £251 TO £500                      |   |            | 34.5       |

|                      | 三烷 |  |
|----------------------|----|--|
| cam Alpha 7R         | 0  |  |
| cam Alpha 8R         | 0  |  |
| cam Alpha 9          | 0  |  |
| dio Analogue Puccini | 0  |  |
| diogram MB1          | 0  |  |
|                      |    |  |

Au Creek 4330 Creek 4330R 40W Creek 5250 50W 450 300 Denon PMA-735R 0 65W Edmund Audio ESI10 330 H/K HK650 0 60W Magnum IA120 Magnum IA170SE 430 0 90W Marantz PM-66 KI Sig Monrio Asty Musical Fidelity E11 Musical Fidelity X-A1

Myryad T-40 NAD C340 Onkvo A9210 50W Onkvo A922 Pioneer A-60 Proneer A-400X Pioneer A-300R Precision Rega Big Brio 000000 35W Rega Luna 40W Rega Mira 60W Roksan Kandy 499 300 Sony TA-FB920R 65W 70W Sony TA-F3000ES 333 280 Teac AH-500 50W 6 6 Technics SU-A909 400 100W Thule Spirit IA60 Token K50 Yamaha AX-592

#### £501 TO £700

| Alchemist Kraken APD6A      | 0 | 55W  | 60  |
|-----------------------------|---|------|-----|
| Alchemist Nemesis           | 0 | 80W  | 70  |
| Audio Analogue Puccini SE   | 0 | 40W  | 63  |
| Audio Note Kanji Line SE    |   | 9W   | 69  |
| Audio Note First integrated |   | 40W  | 699 |
| Audiogram MB2               | 0 | 60W  | 599 |
| AVC EL34                    | 0 | 30W  | 600 |
| CR Dev CR324se              | 0 | 150W | 56  |
| CR Dev Kalypso              | 0 | 15W  | 599 |
| CR Dev CR325                | 0 | 175W | 699 |
| Creek 5250SE                | 0 | 60W  | 66  |
| Cyrus IIIi                  | 0 | 50W  | 59  |
| Cyrus 7                     | 0 | 100W | 70  |
| Densen Beat B-100 MkII      | 0 | 60W  | 650 |
| Gamma Gemini                | 0 | 12W  | 69  |
| H/K HK690                   | 0 | 60W  | 531 |
| Hi Q Sound MCI              | 0 | 30W  | 56  |
| LFD Integrated 0            | 0 | 50W  | 549 |
| Linn Majik (Line)           | 0 | 33W  | 650 |
| Lynwood Opal                | 0 | 80W  | 685 |
| Magnum IA200                | 0 | 100W | 59  |
| Magnum Class A              | 0 | 85W  | 69  |
| Musical Fidelity A220       | 0 | 50W  | 70  |
| Myryad MI 120               | 0 | 60W  | 70  |
| Naim Nait 3                 | 0 | 30W  | 59  |
| Primare A20 Mk II           | 0 | 70W  | 600 |
| Rose Scion                  | 0 | 65W  | 61: |
| Shearne Phase 2             | 0 | 50W  | 689 |
| Sugden Audition T           | 0 | 65W  | 549 |
| Talk Electronics Cyclone 1  | 0 | 60W  | 55  |
| Talk Electronics Storm 2    | 0 | 50W  | 650 |
| Teac AB-X7R                 | 0 | 50W  | 70  |
| Thule Spirit IA100          | 0 | 100W | 60  |
| Thule Spirit IA60B          | 0 | 60W  | 699 |
| YBA Complete Integre        | 0 | 50W  | 699 |

#### £701 TO £1,000

| Alchemist Nexus              | 0 |      | 799   |
|------------------------------|---|------|-------|
| Alchemist Forseti Integrated | 0 | 100W | 1,000 |
| Arcam Alpha 10               | 0 | 100W | 800   |
| Aria S2                      | 0 | 12W  | 1,000 |
| Audio Note Oto Line PP       |   | 12W  | 950   |
| AVI S2000MI                  | 0 | 100W | 999   |
| Copland CSA8                 | 0 | 60W  | 899   |
| Credo IMP702                 | 0 | 70W  | 850   |
| Credo IMP703                 |   | 70W  | 1,000 |
| Electrocompaniet ECI-2       | 0 | 50W  | 995   |
| Exposure XX Super            | 0 | 60W  | 800   |
| Exposure XV Super            | 0 | 60W  | 900   |
| Exposure RCXXV               | 0 | 60W  | 1,000 |
| LFD 0 LE Integrated          | 0 | 60W  | 799   |
| Linn Majik (Phono)           | 0 | 33W  | 800   |
| Magnum Class A SE            | 0 | 80W  | 795   |
| Marantz PM-17                | 0 | 60W  | 900   |
| Meridian 551                 | 0 | 55W  | 795   |
| Musical Fidelity A3          | 0 | 85W  | 849   |
| Musical Fidelity X-A100R     | 0 | 75W  | 999   |
| Naim Nait 3 R                | 0 | 30W  | 780   |
| Opera Aida                   | 0 | 60W  | 795   |
| Pioneer A-07                 | 0 | 80W  | 999   |
| Plinius 2100i                |   |      | 995   |
| Roksan Caspian               | 0 | 70W  | 795   |
| Shearne Phase 2 Reference    | 0 | 50W  | 799   |
| Sonneteer Alabaster          | 0 | 50W  | 900   |
| Sugden A21a Int              | 0 | 25W  | 799   |
| Sugden Audition C            | 0 | 60W  | 799   |
| TAG McLaren 60ı              | 0 | 60W  | 800   |
| TAG McLaren 60iRV            | 0 | 60W  | 999   |

#### £1,001 TO £2,000

Thule Spirit IA150B

| Aria Simply Four P      | 0 | 24W  | 1,595 |
|-------------------------|---|------|-------|
| Aria Simply Four T      | 0 | 11W  | 1,650 |
| ATC SIA2-150            | 0 | 150W | 1,984 |
| Audio Note Soro Line PP |   | 20W  | 1,200 |
| Audio Note Oto Line SE  | 0 | 12W  | 1,200 |

**6** 150W 999

|  | 5280         |              |                   | 1  |          |          |                |   |  |                |  |                |       |
|--|--------------|--------------|-------------------|--|----------|----------|----------------|---|--|----------------|--|----------------|-------|
| udio Note Oto Phono SE<br>udio Note Soro Line SE   | 0            |              | 1,500<br>1,699    | Electrocompaniet ECP-1<br>Henley HMC50                   |          | Ph       | 495<br>150     | ECA Vista S<br>ECA Vista HD                   | 6  | 760<br>880     | Audio Valve Fanfare<br>Audiolabor 511              | 0              |       |
| udio Valve Assistent-S 20  | 0            |              | 1,250             | Henley HMC100  |          |          | 350            | ECA VISIA FID                                 | ⊕<br>Ph  | 880            | Balanced VK-50                                     | 0              |       |
| B Audio BB 30-60   |              |              | 1,495             | Hi Q Sound LCP2  |          |          | 149            | Electrocompaniet EC-4.5                       | The state of the s | 1,195          | Boulder L3AE                                       | 3              |       |
| eam-Echo SA-50   | 0            | 50W          | 1,950             | LFD Mistral Linestage                                    | 6        |          | 449            | Electrocompaniet EC-4.6                       | 0  | 1,750          | Boulder L5AE                                       |                |       |
| ow Technologies Wazoo  |              |              | 1,795             | LFD LSO Linestage  | 0        |          | 499            | Exposure XIII                                 |  | 800            | Boulder L5M  |                |       |
| yston B-60<br>ppland CSA14   |              | 60W          | 1,281             | Lumley PP70  | 0        |          | 345            | Exposure XIX                                  | 6  | 800            | Boulder 2010                                       | 0              |       |
| opland CSA28   |              | 60W<br>60W   | 1,199             | Lumley PP1<br>Magnum MP120                               | 6        |          | 345<br>330     | Exposure XVII Exposure RC XXI                 | 6 Ph   | 850<br>1,000   | Canary Audio CA-801<br>Cary SLP-98L                | 0              |       |
| opland CTA402  |              | 35W          | 1,698             | Magnum MP660   | 0        |          | 500            | Gate PR101P                                   | o  | 1,195          | Chord CPA 2200                                     | 0              |       |
| R Dev Romulus V3   |              | 35W          | 1,198             | Magnum MP330   | 0        |          | 500            | Golden Tube Audio SEP-2                       | 6  | 990            | Chord CPA 3200                                     | 0              |       |
| R Dev Athena   |              | 38W          | 1,499             | Monrio ADN-N   |          | Ph       | 295            | Golden Tube Audio SEP-3                       | 6  | 1,995          | Chord CPA 4000                                     | 0              |       |
| R Dev Remus V3   | 0            | 60W          | 1,989             | Monrio Asty L  | 0        |          | 500            | Graaf WFB Two                                 | 6 Ph   | 1,350          | Conrad-Johnson PF-R                                | 0              |       |
| edo LIM 702<br>edo LIM 703   |              |              | 1,191             | Moth 30 Passive  | 0        | -        | 149            | Graaf WFB One                                 | 6 Ph   | 1,750          | Conrad-Johnson PV-12A<br>Conrad-Johnson Premier 15 | 0              | Ph    |
| ensen DM-10  | 0            | 75W          | 1,249             | Moth 30 Phono<br>Moth 30 Line stage                      | 0        | Ph       | 249<br>349     | Henley HMC200<br>Hi Q Sound MCB2              | Ph   | 600<br>545     | Conrad-Johnson Premier 14                          | 0              | Ph    |
| AR 859   |              |              | 1,999             | Musical Fidelity X10-D                                   | 0        |          | 120            | Hi O Sound MCL2                               | Ø Pn   | 645            | Conrad-Johnson Premier 16LS                        | 6              |       |
| R 834  |              |              | 1,999             | Musical Fidelity X-LP                                    | U        | Ph       | 130            | Jadis DPL2                                    | 6  | 1,590          | Conrad-Johnson Art                                 | 0              |       |
| olden Tube Audio SI-50 MkII  |              | 50W          | 1,100             | Musical Fidelity X-PRE                                   | 0        |          | 200            | Krell KAV250p                                 |  | 1,999          | CAT SL1 Ultimate                                   |                | Ph    |
| aaf Venticinque  |              | 20W          | 1,790             | Musical Fidelity E20                                     | 0        | Ph       | 400            | LFD MC1 Phonostage                            | Ph   | 949            | CR Dev Kastor                                      | 0              |       |
| dis Orchestra  | 0            |              | 1,345             | NAD PP-1   |          | Ph       | 40             | LFD LS1 Linestage                             | 0  | 999            | Credo LPR 001                                      |                |       |
| D Integrated 1   |              |              | 1,099             | NAD 114  | 0        | Ph       | 270            | LFD MC2 Phonostage                            | Ph   | 1,499          | DNM 3C Primus                                      | 0              | Ph    |
| ndahl Mag Amp<br>Irantz PM-17KI Sig  |              | 23W<br>60W   | 1,735             | NAD 116<br>Naim Prefix                                   | 0        | Ph       | 430<br>360     | LFD LS2 Linestage<br>LFD LSB Linestage        | 6  | 1,599          | DNM 3C Twin<br>DNM 3C Six                          | 6              | Ph    |
| eracus Intrare   |              |              | 1,095             | Naim NAC92   | 0        |          | 485            | Linn Wakonda                                  | 6  | 750            | EAR 802MC  | 6              | Ph    |
| AD \$300   |              | 100W         | 1,900             | Parasound P/HP-100                                       | •        | Ph       | 130            | Linn Linto                                    | •  | 850            | EAR G88  | 6              | Ph    |
| pworth MIH-200   |              | 200W         | 1,200             | Parasound P/HP-850                                       | 0        | Ph       | 400            | Linn Kairn                                    | 0  | 1,400          | EAR P52  | 0              | Ph    |
| pworth MVH-200   |              |              | 1,200             | Plinius Jarrah   |          | Ph       | 450            | Lumley LV1.5                                  | 0  | 895            | Gamma Era Ref                                      | 0              | Ph    |
| nius 8150  |              |              | 1,895             | QED Discsaver DS-1                                       |          | Ph       | 35             | Lumley LV1                                    | 0  | 1,150          | Graaf GM13.5B                                      | 0              |       |
| necisa Sonoro  |              | 100W         | 1,800             | Rega EOS   |          | Ph       | 398            | Lumley PV1.5                                  | 6 Ph   | 1,700          | Jadis DPL  | 0              |       |
| mare A30.1<br>stek Fantasy 2   |              | 100W         | 1,500             | Rega Cursa   | 0        | Ph       | 450            | Lumley PV1                                    | 6 Ph   | 1,700          | Jadis DPMC<br>Jadis JPL                            |                | Ph    |
| stek Fantasy 2<br>nic Frontiers Anthem Integrated  |              | 100W<br>25W  | 1,499             | Roksan Artaxerxes 10<br>Rose RV-23                       | 0        | Ph       | 395<br>450     | Matisse Atom<br>McIntosh C712                 | 6 Ph   | 1,000          | Jadis JPP200                                       | 0              |       |
| A R1200R   | 1000         |              | 1,750             | Rotel RQ970BX  | 8        | Ph<br>Ph | 130            | Meracus Ingredi                               | 6 Pn   | 925            | Jadis JP30MC                                       | 6              | Ph    |
| ule Space IA250B   |              |              | 1,799             | Rotel RC971  | 6        |          | 150            | Mendian 501                                   | 6  | 695            | Jadis JPS2   | 6              |       |
| oodside ISA230 Line  |              |              | 1,099             | Rotel RC972  | 0        |          | 225            | Meridian 562                                  |  | 765            | Jadis JP80MC                                       | 0              | Ph    |
| oodside ISA230 Disc  | 0            | 30W          | 1,249             | Sunfire Phono  |          | Ph       | 430            | Meridian 562V                                 |  | 995            | Jadis JP200MC                                      |                |       |
| A a Integre Line   |              |              | 1,095             | Talk Electronics Hurricane 1                             | 0        |          | 500            | Mendian 502                                   | 0  | 1,295          | Klyne 6LE  | 0              |       |
| A a Integre DT Line  | 0            | 50W          | 1,395             | Technics SU-C1010 Thule Spirit PR100                     | 0        | Ph       | 300<br>400     | Michell Delphini Michell Orca                 | Ph   | 895<br>1,650   | Klyne 6PE<br>Klyne 7LX SE                          | 6              | Ph    |
| OVER £2,000  |              |              |                   | Trilogy 905  | 0        |          | 375            | Muse Model 3                                  | 6  | 1,990          | Klyne 7EX SE                                       | 6              | Ph    |
| JULK 12,000  |              | ZAULIO E     |                   | Trilogy 904  |          | Ph       | 375            | Musical Fidelity F25                          | 6 Ph   | 1,500          | Krell KRC3   | 6              |       |
| lyton Opera  | 0            | 50W          | 2,595             | Trilogy 900  | 0        | Ph       | 499            | Myryad MP100                                  | 6  | 600            | Krell KRC-HR                                       | 6              |       |
| MP Flux System 2   | •            | 50W          | 3,000             |  |          |          |                | NAD 118                                       |  | 1,000          | LFD Disc Preamp                                    |                | Ph    |
| ia Simply 845  |              |              | 3,195             | £501 TO £2,000   |          |          |                | Naim NAC92R                                   | 6  | 650            | Madrigal 25S                                       |                | Ph    |
| Audio Integra  |              | 25W          |                   |  |          |          |                | Naim NAC72                                    | 0  | 745            | Madrigal 380                                       | 0              |       |
| Idio Note Meishu Line  | _            |              | 2,750             | Adyton Chorus Alchemist Kraken Pre                       | _        |          | 1,995          | Naim NAC102<br>Quad 99 Pre                    | <b>6</b> Dh  | 1,080          | Madrigal 380S<br>Madrigal 32                       | 0              |       |
| i <mark>dio Note Ongaku</mark><br>idio Research CA50   | 6            |              | 6,000<br>3,399    | Alchemist Forseti Pre                                    | <b>6</b> |          | 549<br>999     | Rega Hal                                      | O Ph   | 800<br>998     | Matisse Fantasy                                    | 0              |       |
| elcanto SETi40   |              |              | 4,450             | Alchemist Signature Pre                                  | 0        |          | 1,499          | Roksan Artaxerxes X/DS1.5                     | Ph   | 1,150          | Matisse Reference                                  | 6              | Ph    |
| elcanto Orfeo 30SI   |              |              | 5,450             | Aria Feather One   | 6        |          | 795            | Roksan ROK-L2.5                               | 6  | 1,250          | McIntosh C22                                       | 0              | Ph    |
| ary CAD-300SEI   |              | 15W          | 3,395             | Aria Mystery Two   | 0        |          | 1,750          | Rose RV-23S                                   | O Ph   | 525            | McIntosh C40                                       | 0              | Ph    |
| onrad-Johnson CAV-50   | 0            |              | 2,495             | Aria Mystery One   | 0        |          | 1,750          | Rotel RC995                                   | 6  | 525            | McIntosh C39                                       | 0              | Ph    |
| AR V20   |              |              | 2,495             | Art Audio Vinyl One MM                                   |          | Ph       | 916            | Shearne Phase 6 Pre                           | 0  | 999            | Meracus Pretare                                    | 0              | Ph    |
| ectrocompaniet ECI-1   |              |              | 2,195             | Art Audio VPS Line                                       | 0        | -        | 963            | Shearne Phase 1 Pre Ref<br>Siemel MC20        | 6  | 1,499          | Michell Delphini Mono<br>Naim NAC82                | _              | Ph    |
| amma Rhythm<br>amma Rhythm Ref   |              |              | 2,499<br>3,499    | Art Audio Vinyl One MM/MC<br>Art Audio VPS Phono         | 6        | Ph<br>Ph | 1,307<br>1,460 | Siemel MM20                                   | Ph<br>Ph   | 650<br>650     | Naim NAC52   | 6              |       |
| amma Moment  |              | 40W          |                   | Art Audio Conductor Phono MC                             | •        |          | 2,000          | Siemel TU10                                   | 9  | 1,599          | Plinius M14  | 0              | Ph    |
| dis DA30   |              |              | 2,690             | Audio Note M1 Line                                       |          |          | 550            | Siemel TR20                                   | 0  | 1,599          | Plinius M16L                                       |                |       |
| dis DA60   |              |              | 4,483             | Audio Note M1 RIAA                                       |          | Ph       | 550            | Sonic Frontiers Anthem Pre 1P                 | Ph   | 899            | Roksan ROK-L1.5                                    | 0              |       |
| ell KAV300ı  | 6            | 150W         | 2,495             | Audio Note M2 Line                                       |          |          | 999            | Sonic Frontiers Phono 1                       | Ph   | 1,999          | Rowland Synergy                                    | 0              |       |
| ell KAV300r  |              |              | 3,333             | Audio Note Discovery                                     |          | 11111    | 999            | Sonographe SC26                               | 6  | 995            | Rowland Coherence<br>Sonic Frontiers Line 1        | 0              |       |
| ell KAV500ı<br>clntosh MA6400E   |              | 250W         |                   | Audio Note M2RIAA<br>Audio Prism Mantissa                | 6        |          | 1,099          | Sugden Audition Pre<br>Sugden Masterclass Pre | 9  | 549<br>1,995   | Sonic Frontiers Line 2                             |                |       |
| cIntosh MA6800E  | 0            | 100W<br>150W | 5,999             | Audio Research LS8                                       | 6        |          | 1,449          | Sumo Athena II Line                           | 6  | 767            | Sonic Frontiers Line 3                             |                |       |
| eracus Onesta  | 0            | 75W          | 2 595             | Audio Research PH3                                       |          |          | 1,490          | Sumo Athena IIB/II LS                         | 0  | 987            | Sony TA-E1   | 0              |       |
| usical Fidelity A1001  |              | 200W         |                   | Audio Research LS9                                       |          | •        | 1,949          | Sumo Athena III                               | Ö  | 987            | T+A Pre DA3000                                     |                |       |
| oneer A-09   |              | 45W          | 4,000             | Audio Synthesis Pro Passion                              | 0        |          | 595            | Sumo Artemis uP                               | 0  | 1,595          | Technics SU-C3000                                  | 6              | Ph    |
| wland Concentra  |              |              | 5,500             | Audio Synthesis Passion                                  | 0        |          | 695            | Sunfire The Classic                           | •  | 1,630          | Trilogy 918  | 0              |       |
| nus Faber Musica   |              |              | 2,295             | Audio Synthesis Passion 8S                               | 0        |          | 1,295          | T+A P1200R                                    | 0  | 965            | Tron Nucleus Phono                                 | 100            | Ph    |
| A R1500R   |              |              | 2,015             | Audio Synthesis Passion 8M<br>Audio Valve Eklipse        | 0        |          | 1,695          | TAG McLaren PA10 TAG McLaren PPA20            | 6 Ph   | 849<br>1,499   | Tron Nucleus Line<br>Tron Retro SE                 | 0              |       |
| be Tech Unisis Sıg. Int.<br>be Tech Synergy PPS  |              |              | 2,300<br>6,900    | AUdio vaive Ekiipse<br>AVI S2000MP                       | 0        |          | 1,650<br>949   | TAG McLaren PA20R                             | 6 Ph   | 1,499          | Tron Orbit   | 6              |       |
| avac MD811   | 0            |              | 2,995             | AVI S2000MP+P  | 6        | Ph       | 1,199          | Talk Electronics Hurricane 2                  | 6  | 650            | Wavac ATT Q  | 6              |       |
| avac MD300B-ST   | Ø            |              | 5,575             | Beam-Echo SP-21  | o        | Ph       | 1,116          | Talk Electronics Hurricane 3                  | 0  | 900            | Wavac PR X1  | 0              |       |
| avac MD300B WE   | 0            | 10W          | 6,750             | Bryston BP20   |          |          | 1,126          | Talk Electronics Hurricane 4                  | 0  | 1,550          | Wavac ATT S  | 0              |       |
|  |              |              | 22.00             | Bryston BP-25  |          |          | 1,326          | Talk Electronics Hurricane 5                  | 0  | 1,900          | Woodside SC26 Line & Phono                         | 6              | Ph    |
| AMPLIFIERS   |              |              |                   | Bryston BP-25P   | 0        | Ph       | 1,592          | Thorens TTP-2000F                             | 6 Ph   | 699<br>699     | YBA 1a Line<br>VBA Sig. Dual Mono 2                | 0              |       |
| PREAMPS  |              |              |                   | Canary Audio CA-606<br>Canary Audio CA-601               | 0        |          | 1,295<br>1,595 | Thule Spirit PR150B<br>Trilogy 901            | 6  | 750            | YBA Sig. Dual Mono 2<br>YBA Sig. Dual Mono 4       | 6              | Ph    |
| (EY  | ) (National) |              |                   | Cary SLP-50 Mk II  | 6        |          | 1,195          | Trilogy 906                                   | Ph   | 995            | . Dr. Sig. Dual World 4                            | 9              | FN    |
|  |              | Land C       |                   | Cary PH-301  |          | Ph       | 1,695          | Trilogy 902                                   | 9  | 1,595          | <b>AMPLIFIERS</b>                                  | part of the Co |       |
| (etc) – Number of line   |              |              |                   | Chord Phono  |          |          | 1,898          | Tron Retro                                    | 6  | 1,500          | DOWED ANDS   |                |       |
| Ph - Phono input fitted  | as sta       | ndard        |                   | Chord CPA 1800   | 0        |          | 1,905          | Tube Tech Seer Line                           | 6  | 935            | <b>POWER AMPS</b>                                  |                |       |
| may be an option on some o   | other m      | odels).      |                   | Concordant Exhilerant Concordant Exquisite               |          |          | 900            | Tube Tech Mac Phono Tube Tech Prophet         | Ph   | 1,150<br>1,970 | KEY  |                |       |
|  |              | ,<br>(4)     | 7A 32 49          | Concordant Exquisite  Conrad-Johnson PV-10AL             | 0        |          | 995            | van den Hul Pre-amp                           | 6  | 1,800          | '20W' - Rated RMS outp                             | ut po          | wer p |
| IP TO £500   |              |              |                   | Conrad-Johnson PV-10A                                    | 6        | Ph       | 1,295          | Wilson Benesch Stage One                      | Ph   | 995            | channel into a nominal 8                           |                |       |
|  |              |              |                   | Conrad-Johnson PV-12AL                                   | 0        |          | 1,990          | Woodside SC27 Line                            | 6  | 949            |  |                |       |
| cam Alpha 9C   | <b>6</b>     |              | 400               | Conrad-Johnson EF-1                                      |          |          | 1,990          | Woodside SC26 Line                            |  | 1,557          | UP TO £500   |                |       |
| a Simply Phono   |              | Ph           | 500               | Conrad-Johnson PF-2                                      | 0        | Ph       | 1,990          | XTC PRE-1                                     | 0  | 1,350          | Aream Alpha 00                                     |                |       |
| dio Analogue Bellini<br>dio Note M Zero  |              | Ph           | 495<br>299        | Copland CSA303<br>Copland CTA301 MkII                    | 6        | Ph       | 1,099          | YBA 3a Line<br>YBA 2a Line                    | 0  | 995<br>1,450   | Arcam Alpha 9P<br>Creek A43                        | 70W            |       |
| C Pre 3  | 0            |              | 500               | CR Dev Carmenta  | 6        | Ph       | 659            | IDA ZO LINE                                   | 9  | 1,450          | Creek A43<br>Creek A52                             | 50W<br>70W     |       |
| am-Echo PP-21  | 0            | Ph           | 499               | CR Dev Argento   | 9        | Ph       | 699            | OVER £2,000                                   |  |                | Crimson CS620C                                     | 50W            |       |
| yston BP1  | 0            | Ph           | 438               | Credo CMP004   |          |          | 1,246          |   |  |                | Cyrus XPA  | 50W            |       |
| Dev Themis   |              | Ph           | 349               | Credo CMP005   |          |          | 1,876          | Adyton Temper                                 |  | 2,495          | Cyrus Power  | 50W            |       |
| eek OBH-9  |              |              | 160               | Cyrus aCA7   | 0        |          | 798            | Adyton Modus                                  | 0  | 2,695          | Earmax Headphone                                   | 0.1W           |       |
|  | 0            |              | 350               | Cyrus aEQ7/PSX-R   | 0        | Ph       | 826            | Art Audio VPS Dual Mono Line                  | 0  | 2,350          | Earmax Headphone Pro                               | 0.1W           |       |
|  | <b>3</b>     | DI           | 499<br>450        | Densen Beat B-200<br>Densen DM-20                        | 6        | Ph       | 1,000          | ATC SCA2<br>Atma-Sphere MP-3                  | 6 Ph   | 2,599<br>3,795 | LFD Mistral Power<br>LFD PAO Powerstage            | 60W            |       |
| eek P52  |              | Ph           |                   | DNM 3 Start  | 0        | Ph       | 1,200          | Atma-Sphere MP-1                              | 6 Ph   | 7,600          | Magnum MF120                                       | 50W<br>85W     |       |
| eek P52<br>Imson CS610C  | 9            | Ph           | 498               |  |          |          |                |   | -11  |                |  |                |       |
| eek P52<br>Imson CS610C<br>Irus aEQ7   | 9            | Ph           | 498<br>350        | DNM 3A Start   | 0        | Ph       | 1,650          | Audio Note M3Line                             |  | 2,650          | Marantz MA-500                                     | 125VV          |       |
| eek P52<br>Imson CS610C<br>Irus aEQ7<br>ensen DP-Drive/DP-02<br>PA Enl'ment phono                              | 9            | Ph<br>Ph     | 350<br>275        | DNM 3A Start<br>DPA Enlightenment pre                    | 0        | Ph       | 1,650<br>795   | Audio Prism Avanti                            | 0  | 7,995          | Marantz MA-700                                     | 125W<br>200W   |       |
| reek P52<br>Imson CS610C<br>Imson CS610C<br>Imrus aEQ7<br>ensen DP-Drive/DP-02<br>PA Enl'ment phono<br>IR 834P |              |              | 350<br>275<br>349 | DNM 3A Start<br>DPA Enlightenment pre<br>Dynavector L200 | 0        |          | 795<br>995     | Audio Prism Avanti<br>Audio Research LS15     | 6  | 7,995<br>3,399 | Marantz MA-700<br>Moth 30 Stereo                   | 200W<br>30W    |       |
| reek P43/R reek P52 Imson C5610C rus aEQ7 ensen DP-Drive/DP-02 PA Enl'ment phono 1R 834P 1R 834L 1R 834P/MC    | 6            | Ph           | 350<br>275        | DNM 3A Start<br>DPA Enlightenment pre                    |          |          | 795            | Audio Prism Avanti                            |  | 7,995          | Marantz MA-700                                     | 200W           |       |

| Musical Fidelity X-CANS<br>Musical Fidelity E30   | 0.1W<br>100W   | 130<br>500  | Musical Fidelity X-A200<br>Myryad MA240  | 200W<br>120W   | 1,000   | Cary CAD-805C<br>Chord SPM 1000B   | 50W<br>200W   | 7,995<br>2,920   | Tron Type PX25<br>Tron Type KR300B  |
|---|--|---|--|--|---|--|---|--|---|
| Musical Fidelity X-A50  | 50W  | 500   | NAD 218THX   | 200W   | 850   | Chord SPM 1200B  | 250W  | 3,790  | Tron Type WE300B  |
| Myryad T-60   | 50W  | 300   | Naim NAP140  | 45W  | 770   | Chord SPM 1200C  | 350W  | 4,210  | Tron Type PX25 Mono   |
| Myryad MA 120   | 60W  | 500   | Naim NAP180  | 60W  | 1,090   | Chord SPM 1400B mono   | 350W  | 8,420  | Tron Type WE300B M  |
| NAD 912<br>NAD 214  | 30W<br>80 W  | 200<br>370  | Naim NAP135<br>Naim NAP250   | 75W<br>70W   | 1,705<br>1,705  | Chord SPM 5000<br>Conrad-Johnson MF2250  | 415W<br>130W  | 14,570<br>2,295  | Tron Type KR 300B M<br>Tube Tech Genesis Sig  |
| NAD 216THX  | 125W   | 470   | Papworth TVA50   | 50W  | 1,425   | Conrad-Johnson MF-2500   | 250W  | 3,495  | Tube Tech Synergy DI  |
| Naim NAP90/3  | 30W  | 460   | Parasound HCA-1000A  | 125W   | 600   | Conrad-Johnson Premier 11A   | 70W   | 3,500  | van den Hul Power an  |
| Parasound HCA-750A  | 75W  | 450   | Parasound HCA-1500A  | 205W   | 1,000   | Conrad-Johnson Premier 12  | 140W  | 6,900  | Wavac MD572   |
| Quad 99 Stereo Power<br>Rega Maia   | 85W<br>85W   | 500<br>450  | Quad 909<br>Quad 99 Monoblock  | 140W<br>150W   | 900   | Conrad-Johnson Premier 8XS<br>Conrad-Johnson Premier 8A  | 150W<br>275W  | 17,000<br>17,000   | Wavac EC300B<br>Wavac EC838   |
| Rotel RB971   | 70W  | 200   | Rega Exon  | 125W   | 796   | CAT JL1  | 100W  | 17,550   | Wavac HE 4304   |
| Rotel RB981   | 130W   | 300   | Roksan Caspian Power   | 70W  | 595   | CR Dev Artemis   | 35W   | 4,995  | Wavac HE 833  |
| Rotel RB991   | 200W   | 500   | Roksan ROK-S1.5  | 100W   | 1,495   | Credo LPO 804  |   | 2,456  | Wavac HE 805  |
| Shearne 3.5<br>Talk Electronics Tornado 1   | 35W  | 489   | Rose RP-190 (Dual Mode)  | 75W  | 550   | Credo PMP 155  |   | 2,676  | XTC POW-1   |
| Technics SF-A1010   | 50W<br>100W  | 450<br>350  | Shearne Phase 3 Shearne Phase 3 Reference  | 50W<br>50W   | 639<br>749  | Credo LPO 455<br>Credo LPO 155   |   | 4,975<br>6,983   | YBA 2a HC Stereo<br>YBA 3a Mono   |
| Technics SE ATOTO   | 10000  | 330   | Shearne Phase 5 Mono   | 100W   | 1,598   | DNM PA3  | 50W   | 2,500  | YBA 2a HCDT Stereo  |
| £501 TO £2,000  |  |   | Sonic Frontiers Anthem Amp 1   | 40W  | 1,299   | DNM PA3S   | 23W   | 3,750  | YBA 1a HC Stereo  |
|   | THE REAL PROPERTY.   |   | Sonographe SA250   | 125W   | 1,195   | Dynavector HX1.2   | 130W  | 3,995  | YBA 2a HCDT Mono  |
| Alchemist Kraken Pwr  | 55W  | 549   | Sonographe SA400   | 220W   | 1,695   | EAR 861  | 32W   | 3,599  | YBA 1a HC Mono  |
| Alchemist Forseti Pwr<br>Alchemist Signature Power  | 150W   | 1,399<br>1,999  | Sugden Audition Power<br>Sugden A21a Power   | 2514/  | 549<br>649  | EAR 509 Mk II<br>EAR 519   | 100W  | 3,999<br>4,699   | YBA Sig. Stereo<br>YBA Passion Mono   |
| Arcam Alpha 10P   | 100W   | 600   | Sumo Polaris III   | 25W<br>164W  | 950   | EAR 549  | 100W<br>200W  | 6,499  | YBA Sig. Mono   |
| Aria Power 35   | 35W  | 1,500   | Sumo Model Five  | 60W  | 1,975   | Electrocompaniet AW120DMB  | 120W  | 2,695  | YBA Sig. HC Mono  |
| Art Audio Quartet   | 15W  | 1,753   | Sumo Andromeda III   | 240W   | 1,975   | Electrocompaniet AW250R  | 250W  | 3,995  | DW - 1040-0-005-0-14-0-100  |
| Art Audio Concerto  | 25W  | 1,960   | T+A A1210  | 90W  | 875   | Electrocompaniet AW180MB   | 180W  | 4,595  |   |
| Audio Analogue Donizetti<br>Audio Note The P  | 60W  | 595<br>550  | T+A PA1220R<br>T+A A1500   | 100W   | 1,445   | Exposure IV<br>Exposure XVI  | 90W   | 2,199<br>4,000   | SUPPL DISTRIBUTE  |
| Audio Note P Zero   | 40W<br>8W  | 599   | T+A PA1500R  | 140W<br>135W   | 1,665   | Gamma Aeon   | 125W<br>20W   | 4,000  |   |
| Audio Note P1   | 12W  | 750   | TAG McLaren 60P  | 60W  | 849   | Gamma Space Ref  | 18W   | 7,999  |   |
| Audio Note P1SE   | 12W  | 999   | TAG McLaren 100P   | 100W   | 1,099   | Gamma Aeon Ref   | 70W   | 49,999   |   |
| Audio Note P2   | 20W  | 1,000   | Talk Electronics Tornado 2   | 65W  | 600   | Gate TR201A  | 22W   | 3,335  |   |
| Audio Note P2SE<br>Audio Note Conqueror   | 18W  | 1,499   | Talk Electronics Tornado 3 Talk Electronics Tornado 4  | 100W   | 750<br>1,100  | Golden Tube Audio SE-100<br>Graaf 5050   | 100W  | 2,495  |   |
| Audio Prism Antares   | 8W<br>35W  | 1,599<br>1,695  | Thorens TTA-2000   | 110W<br>30W  | 599   | Graaf GM20   | 50W<br>60W  | 2,100<br>2,850   |   |
| Audio Research D130   | 130W   | 1,890   | Thule Spirit PA100   | 100W   | 600   | Graaf GM100  | 100W  | 4,250  | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   |
| Audio Research VT60   | 35W  | 1,999   | Thule Spirit PA150B  | 150W   | 699   | Graaf GM200  | 200W  | 7,500  | L. Contract   |
| Audio Valve RKV   | 0.1W   | 595   | Thule Space PA250B   | 250W   | 1,699   | Jadis DA8  | 80W   | 2,990  |   |
| Audio Valve PPP25<br>Audio Valve PPP45  | 25W  | 1,095   | Trilogy 948  | 50W  | 1,895   | Jadis DA7  | 100W  | 4,790  |   |
| AVC PSE 300B  | 45W<br>18W   | 1,395<br>1,200  | Trilogy 948T<br>Tube Tech Syrinx   | 22W<br>45W   | 1,895<br>1,150  | Jadis JA30<br>Jadis SE300B   | 30W<br>10W  | 5,180<br>7,980   |   |
| AVI S2000MM   | 150W   | 1,399   | Tube Tech Unisis Sig. Pwr  | 30W  | 1,900   | Jadis JA80   | 60W   | 9,580  | CABLES  |
| Beauhorn Obligato   | 7W   | 1,175   | Woodside SA240   | 40W  | 1,199   | Jadis JA100  | 100W  | 10,298   | Analogue  |
| Bryston 2B-LP   | 75W  | 750   | Woodside MA100   | 100W   | 1,733   | Jadis JA200  | 160W  | 13,980   | KEY   |
| Bryston 3B-ST PRO   | 150W   | 1,160   | Woodside STA50   | 50W  | 1,880   | Jadis JA500  | 400W  | 19,990   | ⊕ – Stranded co   |
| Bryston 3B-ST<br>Bryston THX3B  | 150W<br>150W   | 1,160<br>1,262  | XTC POW-2<br>YBA 3a DT Stereo  | 150W<br>45W  | 1,600<br>1,455  | Krell KAV250a<br>Krell KAV500/2  | 250W  | 3,145<br>3,195   |   |
| Bryston 4B-ST PRO   | 300W   | 1,756   | TDA 30 DT SICICO   | 45VV   | 1,433   | Krell FPB200   | 100W<br>200W  | 5,998  | <ul><li>Solid-core</li></ul>  |
| Bryston 7B-ST   | 500W   | 1,815   | OVER £2,000  |  |   | Krell FPB250m  | 250W  | 8,994  | Prices of interco   |
| Bryston 7B-ST PRO   | 500W   | 1,815   |  |  |   | Krell FPB300   | 300W  | 9,500  | for a one-metre   |
| Bryston THX4B   | 300W   | 1,850   | Adyton Cordis 1.6  | 120W   | 3,495   | Krell FPB600   | 600W  | 12,900   |   |
| Bryston THX7B<br>Canary Audio CA-706  | 500W   | 1,886<br>1,695  | Adyton Cordis 3B<br>Aria Smart 845   | 280W   | 12,995  | Krell FPB350m<br>Krell FPB650m   | 350W  | 15,994   | Acoustic Precision Eiko   |
| Canary Audio CA-708   | 40W<br>50W   | 1,950   | Aria Smart 300B  | 24W<br>24W   | 3,500<br>4,250  | Lexicon 225  | 650W<br>250W  | 23,800 2,500   | Acoustic Precision Elike Apertura Model B   |
| Chord SPM 400   | 100W   | 1,425   | Art Audio Symphony   | 7W   | 2,500   | Lexicon 501  | 500W  | 5,000  | Apertura Model A  |
| Chord SPM 600   | 130W   | 1,850   | Art Audio Tempo  | 30W  | 2,714   | Linn Klout   | 80W   | 2,400  | Argento Copper I/C  |
| Conrad-Johnson MV-55  | 50W  | 1,995   | Art Audio Maestro  | 60W  | 3,884   | Linn Klimax 500  | 500W  | 11,200   | Argento Silver I/C  |
| Copland CSA515  | 150W   | 1,299   | Art Audio Diavolo  | 13W  | 4,000   | Lumley M125  | 120W  | 3,750  | Argento VDM Silver  |
| Copland CTA505<br>CR Dev Amphion  | 67W  | 1,899   | Art Audio Jota<br>Art Audio Ellesse  | 18W  | 6,000<br>8,500  | Lumley M250<br>Magnum Class A mono   | 250W  | 7,500<br>2,450   | Art Yam Church 5000<br>Audio Note AN-A  |
| Credo PMP 804   | 12W  | 1,876   | Art Audio Chiara   | 100W<br>25W  | 10,000  | Magnum A200SE  | 180W<br>275W  | 3,750  | Audio Note AN-A   |
| Creek A52SE   | 100W   | 599   | ATC SPA2-200PRO  | 200W   | 2,056   | Mana Stealth   | 300W  | 4,500  | Audio Note AN-S   |
| Crimson CS630C  | 100W   | 800   | ATC SPA2-150   | 200W   | 2,699   | Madrigal 334   | 125W  | 5,495  | Audio Note AN-V   |
| Cyrus aPA7  | 150W   | 1,900   | Atma-Sphere S-30 Mk II   | 30W  | 2,450   | Madrigal 335   | 250W  | 7,495  | Audio Note AN-Vx  |
| Densen B-300  | 100W   | 800   | Atma-Sphere M-60 Mk II   | 60W  | 4,195   | Madrigal 336   | 350W  | 8,995  | Audioquest Jade   |
| Densen DM-30<br>DNM PA Start  | 100W   | 1,200   | Atma-Sphere MA-1 Mk II<br>Audio Note P3  | 150W   | 7,995   | Madrigal 33H<br>Matisse Ref Monoblocks   | 150W  | 19,395<br>8,000  | Audioquest Turquoise<br>Audioquest Topaz x2   |
| DNM PA1 Start   | 45W<br>45W   | 1,650   | Audio Note Quest   | 9W<br>9W   | 2,150<br>2,750  | McIntosh MC150   | 180W<br>150W  | 3,499  | Audioquest Topaz XZ Audioquest Ruby x3  |
| DPA Enlightenment pwr   | 100W   | 995   | Audio Note Yubi  | 18W  | 3,850   | McIntosh MC300   | 300W  | 3,999  | Audioquest Quartz x3  |
| Dynavector HX75   | 75W  | 1,995   | Audio Note Conquest  | 18W  | 4,450   | McIntosh MC500   | 500W  | 8,999  | Audioquest Opal x3  |
| ECA Lectern S   | 50W  | 880   | Audio Note Tomei   | 30W  | 8,500   | McIntosh MC1000  | 999W  | 14,999   | Audioquest Emerald x  |
| ECA Lectern HD<br>Electrocompaniet AW60FTT  | 50W  | 1,480<br>1,095  | Audio Note Neiro<br>Audio Note Ankoru  | 7W   | 11,360<br>14,500  | Meracus Tentare<br>Meracus Cantare   | 75W   | 2,245<br>8,995   | Audioquest Lapis x3 Audiosource Petros Bli  |
| Exposure XVIII Super  | 60W  | 900   | Audio Prism Debut Mk II  | 60W<br>35W   | 2,495   | Muse Model 160 Ser. II   | -W<br>160W  | 2,290  | Audiosource Petros Bl   |
| Exposure XVIII Mono   | 60W  | 1,800   | Audio Prism Mana   | 100W   | 12,995  | Muse Model 150   | 125W  | 2,690  | Audiosource Stratos So  |
| Golden Tube Audio SE-40   | 40W  | 1,100   | Audio Research VT50  | 50W  | 2,950   | Muse Model 175 Ser. II   | 175W  | 3,490  | Cable Talk Improved 2   |
| Golden Tube Audio SE-300B Mk  | 0  | 1,790   | Audio Research 100.2   | 100W   | 3,395   | Muse Model 300 Ser. II   | 300W  | 3,990  | Cable Talk Improved 2   |
| Graaf Venticinque P   | 25W  | 1,425<br>715  | Audio Research VT100 Mkll<br>Audio Research VT200  | 100W   | 4,950<br>8,790  | Musical Fidelity F16<br>Musical Fidelity F19   | 200W  | 2,500<br>4,000   | Cable Talk Monitor 3<br>Cable Talk Studio 2   |
|   | 70W  | 1,749   | Audio Synthesis Desire Decade  | 200W<br>200W   | 2,495   | Papworth M100  | 300W<br>100W  | 2,645  | Cable Talk Professiona  |
| Hi Q Sound MCM  | ACMAL  |   | Audio Valve Avalon   | 60W  | 2,195   | Papworth M200  | 200W  | 3,825  | Cable Talk Broadcast 2  |
| Jadis DA5   | 40W<br>150W  |   |  |  | 2,995   | Plinius SA50/3   | 20011   | 2,750  | Cable Talk Reference 2  |
|   | 40W<br>150W<br>120W  | 1,990<br>1,850  | Audio Valve Challenger 115   | 11500  |   |  |   |  |   |
| Jadis DA5<br>Krell KAV150a<br>Lexicon 212<br>LFD PA1 Powerstage   | 150W<br>120W<br>60W  | 1,990<br>1,850<br>999   | Audio Valve Challenger 115<br>Audio Valve Challenger 140   | 115W<br>140W   | 3,495   | Plinius SA100/3  |   | 3,450  | Cable Talk Signature 2  |
| Jadis DA5<br>Krell KAV150a<br>Lexicon 212<br>LFD PA1 Powerstage<br>LFD PA2 Powerstage   | 150W<br>120W<br>60W<br>75W   | 1,990<br>1,850<br>999<br>1,599  | Audio Valve Challenger 115<br>Audio Valve Challenger 140<br>Audio Valve Challenger 300   | 140W<br>300W   | 7,995   | Plinius SA250/3  |   | 5,850  | Cambridge Atlantic  |
| Jadis DA5 Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage   | 150W<br>120W<br>60W<br>75W<br>90W  | 1,990<br>1,850<br>999<br>1,599<br>1,999   | Audio Valve Challenger 115<br>Audio Valve Challenger 140<br>Audio Valve Challenger 300<br>Audio Valve Baldur 200 Plus  | 140W<br>300W<br>149W   | 7,995<br>8,995  | Plinius SA250/3<br>Roksan ROK-M1.5   | 160W  | 5,850<br>2,250   | Cambridge Atlantic<br>Cambridge Arctic  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100  | 150W<br>120W<br>60W<br>75W<br>90W<br>50W   | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650  | Audio Valve Challenger 115<br>Audio Valve Challenger 140<br>Audio Valve Challenger 300<br>Audio Valve Baldur 200 Plus<br>Audiolabor 500  | 140W<br>300W<br>149W<br>230W   | 7,995<br>8,995<br>5,998   | Plinius SA250/3<br>Roksan ROK-M1.5<br>Rowland Model 2  | 75W   | 5,850<br>2,250<br>4,999  | Cambridge Atlantic<br>Cambridge Arctic<br>Cambridge Pacific   |
| Jadis DA5 Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage   | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W   | 1,990<br>1,850<br>999<br>1,599<br>1,999   | Audio Valve Challenger 115<br>Audio Valve Challenger 140<br>Audio Valve Challenger 300<br>Audio Valve Baldur 200 Plus  | 140W<br>300W<br>149W<br>230W<br>30W  | 7,995<br>8,995<br>5,998<br>3,525  | Plinius SA250/3<br>Roksan ROK-M1.5   | 75W<br>150W   | 5,850<br>2,250   | Cambridge Atlantic<br>Cambridge Arctic<br>Cambridge Pacific<br>Cambridge Studio Refe  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby  | 150W<br>120W<br>60W<br>75W<br>90W<br>50W   | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985   | Audio Valve Challenger 115<br>Audio Valve Challenger 140<br>Audio Valve Challenger 300<br>Audio Valve Baldur 200 Plus<br>Audiolabor 500<br>Beam-Edho DL7-35<br>Belcanto SET40<br>Belcanto Orfeo 30S  | 140W<br>300W<br>149W<br>230W   | 7,995<br>8,995<br>5,998   | Plinius SA250/3<br>Roksan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 6   | 75W   | 5,850<br>2,250<br>4,999<br>10,999  | Cambridge Atlantic<br>Cambridge Arctic<br>Cambridge Pacific<br>Cambridge Studio Ref.<br>Cambridge Silver Spiri<br>Cambridge Silver Spiri  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330   | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W<br>100W<br>120W<br>150W   | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>685  | Audio Valve Challenger 115<br>Audio Valve Challenger 140<br>Audio Valve Challenger 300<br>Audio Valve Baldur 200 Plus<br>Audiolabor 500<br>Beam-Echo DL7-35<br>Belcanto SET40<br>Belcanto Offeo 30S<br>Belcanto SET80  | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>80W   | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750   | Plinius SA250/3<br>Roksan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 6<br>Rowland Model 8T<br>Rowland Model 9T<br>Shearne Phase 1 Pwr Ref  | 75W<br>150W<br>250W<br>350W<br>100W   | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,399   | Cambridge Atlantic<br>Cambridge Arctic<br>Cambridge Pacific<br>Cambridge Studio Refi<br>Cambridge Silver Spiri<br>Cambridge Silver Spiri<br>Cardas Audio 300B-Mi  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn LK205 Lynwood Ruby Magnum MF330 Magnum MF360   | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W<br>100W<br>120W<br>150W<br>125W   | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>685<br>825   | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-55 Belcanto SET40 Belcanto Orfeo 305 Belcanto SET80 Border Patrol 3008 SE  | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>80W<br>9W   | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995  | Plinius SA250/3<br>Roksan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 6<br>Rowland Model 8T<br>Rowland Model 9T<br>Shearne Phase 1 Pwr Ref<br>Siemel TA20   | 75W<br>150W<br>250W<br>350W<br>100W<br>50W  | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,399<br>2,350  | Cambridge Atlantic<br>Cambridge Arctic<br>Cambridge Pacific<br>Cambridge Studio Refi<br>Cambridge Silver Spiri<br>Cambridge Silver Spiri<br>Cardas Audio 3008-Mi<br>Cardas Audio Quadlin  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum A5005E  | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W<br>100W<br>120W<br>150W<br>125W<br>200W   | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>685<br>825<br>1,485  | Audio Valve Challenger 115<br>Audio Valve Challenger 140<br>Audio Valve Challenger 300<br>Audio Valve Baldur 200 Plus<br>Audiolabor 500<br>Beam-Echo DL7-35<br>Belcanto SET40<br>Belcanto Orfeo 30S<br>Belcanto SET80<br>Border Patrol 300B SE<br>Border Patrol 300B SE  | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>80W<br>9W<br>10W  | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495   | Plinius SA250/3<br>Rolsan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 6<br>Rowland Model 8T<br>Rowland Model 9T<br>Shearne Phase 1 Pwr Ref<br>Siemel TA20<br>Sonic Frontiers Power 1  | 75W<br>150W<br>250W<br>350W<br>100W<br>50W<br>55W   | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,399<br>2,350<br>2,499   | Cambridge Atlantic<br>Cambridge Arctic<br>Cambridge Pacific<br>Cambridge Studio Ref.<br>Cambridge Silver Spiri<br>Cambridge Silver Spiri<br>Cardas Audio 300B-Mi<br>Cardas Audio Quadlin<br>Cardas Audio Cardas (   |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn LK205 Lynwood Ruby Magnum MF330 Magnum MF360   | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W<br>100W<br>120W<br>150W<br>125W<br>200W   | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>685<br>825   | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-55 Belcanto SET40 Belcanto Orfeo 305 Belcanto SET80 Border Patrol 3008 SE  | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>80W<br>9W<br>10W  | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495<br>2,800  | Plinius SA250/3<br>Roksan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 6<br>Rowland Model 8T<br>Rowland Model 9T<br>Shearne Phase 1 Pwr Ref<br>Siemel TA20   | 75W<br>150W<br>250W<br>350W<br>100W<br>50W<br>55W<br>110W   | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,399<br>2,350<br>2,499<br>4,999  | Cambridge Atlantic<br>Cambridge Arctic<br>Cambridge Pacific<br>Cambridge Studio Refi<br>Cambridge Silver Spiri<br>Cambridge Silver Spiri<br>Cardas Audio 3008-Mi<br>Cardas Audio Quadlin  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum A500SE Magnum A50SE   | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W<br>100W<br>120W<br>150W<br>125W<br>200W   | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>685<br>825<br>1,485<br>1,595   | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-35 Belcanto SET40 Belcanto Offeo 30S Belcanto SET80 Border Patrol 300B SE Border Patrol 300B SE (WE) Boulder 102AE   | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>80W<br>9W<br>10W  | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495   | Plinius SA250/3<br>Rolsan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 6<br>Rowland Model 8T<br>Rowland Model 9T<br>Shearne Phase 1 Pwr Ref<br>Siemel TA20<br>Sonic Frontiers Power 1<br>Sonic Frontiers Power 2<br>Sonic Frontiers Power 3<br>Sonic Frontiers Power 3   | 75W<br>150W<br>250W<br>350W<br>100W<br>50W<br>55W   | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,399<br>2,350<br>2,499   | Cambridge Atlantic<br>Cambridge Pacific<br>Cambridge Pacific<br>Cambridge Studio Refi<br>Cambridge Silver Spiri<br>Cardas Audio 3008-Mi<br>Cardas Audio Quadlin<br>Cardas Audio Cardas (<br>Cardas Audio Hexlink-   |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum A500SE McIntosh MC7100 Meracus Ciere Mendian 555  | 150W<br>120W<br>60W<br>75W<br>90W<br>120W<br>120W<br>150W<br>125W<br>200W<br>100W<br>60W   | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>685<br>825<br>1,485<br>1,595<br>1,999<br>1,095                                   | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-35 Belcanto SET40 Belcanto Offeo 30S Belcanto SET80 Border Patrol 300B SE Border Patrol 300B SE (WE) Boulder 102AE Boulder 102AE Boulder 500AE Boulder 500AE   | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>80W<br>9W<br>10W<br>100W  | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495<br>2,800<br>3,100<br>4,995<br>5,500   | Plinius SA250/3<br>Roksan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 8T<br>Rowland Model 8T<br>Shearne Phase 1 Pwr Ref<br>Siemel TA20<br>Sonic Frontiers Power 1<br>Sonic Frontiers Power 2<br>Sonic Frontiers Power 3<br>Sony TA-N1<br>Sugden Masterclass Power   | 75W<br>150W<br>250W<br>350W<br>100W<br>50W<br>55W<br>110W<br>220W   | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,399<br>2,350<br>2,499<br>4,999<br>8,599<br>4,500<br>2,995                                     | Cambridge Atlantic Cambridge Arctic Cambridge Pacific Cambridge Studio Ref. Cambridge Silver Spiri Cambridge Silver Spiri Cardas Audio 3008-Mi Cardas Audio 3008-Mi Cardas Audio Cardas C Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Hodel ChordCo Chrysalis  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn LK305 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum M500SE Magnum A500SE Magnum A50SE McIntosh MC7100 Meracus Ciere Meridian 555 Mendian 556   | 150W<br>120W<br>60W<br>75W<br>90W<br>120W<br>120W<br>120W<br>150W<br>125W<br>200W<br>200W<br>100W<br>60W<br>100W                       | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>685<br>825<br>1,485<br>1,595<br>1,999<br>1,095<br>750<br>895                     | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-55 Belcanto SET40 Belcanto SET80 Border Patrol 300B SE Border Patrol 300B SE (WE) Boulder 102AE Boulder 102AE Boulder 500AE Boulder 500M Boulder 2060   | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>80W<br>9W<br>10W<br>100W<br>100W<br>150W<br>150W                  | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495<br>2,800<br>3,100<br>4,995<br>5,500<br>25,000   | Plinius SA250/3<br>Roksan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 6<br>Rowland Model 8T<br>Rowland Model 9T<br>Shearne Phase 1 Pwr Ref<br>Siemel TA20<br>Sonic Frontiers Power 1<br>Sonic Frontiers Power 2<br>Sonic Frontiers Power 3<br>Sony TA-N1<br>Sugden Masterclass Power<br>Sumo Model Ten/M  | 75W<br>150W<br>250W<br>350W<br>100W<br>50W<br>55W<br>110W<br>220W<br>200W<br>75W<br>240W                                  | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,350<br>2,499<br>4,999<br>8,599<br>4,500<br>2,995<br>4,200                                     | Cambridge Atlantic Cambridge Arctic Cambridge Pacific Cambridge Pacific Cambridge Silver Spiri Cambridge Silver Spiri Cambridge Silver Spiri Cardas Audio 3008-Mi Cardas Audio Quadlin Cardas Audio Cardas Ocardas Audio Hexlink- Cardas Audio Hexlink Cardas Audio Hexlink Cardas Audio Colden ChordCo Chrysalis ChordCo Cobra 2   |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum A500SE Magnum A500SE Malnosh MC7100 Meracus Giere Meridian 555 Meridian 556 Mendian 557   | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W<br>120W<br>125W<br>200W<br>100W<br>60W<br>60W<br>100W                                 | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>685<br>825<br>1,485<br>1,595<br>1,999<br>1,095<br>750<br>895                     | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-35 Belcanto SET40 Belcanto SET40 Belcanto Crfeo 305 Belcanto SET80 Border Patrol 300B SE Border Patrol 300B SE (WE) Boulder 102M Boulder 102M Boulder 500AE Boulder 500AE Boulder 2050  | 140W<br>300W<br>149W<br>230W<br>40W<br>35W<br>80W<br>10W<br>100W<br>150W<br>150W<br>999W                               | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>3,995<br>4,495<br>2,800<br>3,100<br>4,995<br>5,500<br>25,000<br>43,500  | Plinius SA250/3<br>Rolsan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 8T<br>Rowland Model 8T<br>Rowland Model 9T<br>Shearne Phase 1 Pwr Ref<br>Siemel TA20<br>Sonic Frontiers Power 1<br>Sonic Frontiers Power 2<br>Sonic Frontiers Power 3<br>Sonic Frontiers Power 3<br>Sundant Masterclass Power<br>Sumo Model Tery/M | 75W<br>150W<br>250W<br>350W<br>100W<br>50W<br>55W<br>110W<br>220W<br>220W<br>240W<br>300W                                 | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,350<br>2,499<br>4,999<br>8,599<br>4,500<br>2,995<br>4,200<br>2,280                            | Cambridge Atlantic Cambridge Pactic Cambridge Pactic Cambridge Studio Ref. Cambridge Silver Spiri Cardas Audio Sou8-Mi Cardas Audio Quadlin Cardas Audio Quadlin Cardas Audio Cardas ( Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Hocolden ChordCo Chrysalis ChordCo Cobra 2 ChordCo Siren  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum A500SE Magnum A50SE McIntosh MC7100 Meracus Ciere Meridian 555 Meridian 556 Meridian 557 Meridian 557   | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W<br>120W<br>125W<br>200W<br>100W<br>60W<br>60W<br>200W<br>100W                         | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>1,999<br>1,200<br>985<br>685<br>825<br>1,485<br>1,595<br>1,999<br>1,095<br>750<br>895<br>1,400                 | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-35 Belcanto SET40 Belcanto SET40 Belcanto SET80 Border Patrol 300B SE Border Patrol 300B SE (WE) Boulder 102AE Boulder 102AE Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THXBB  | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>80W<br>90W<br>100W<br>150W<br>150W<br>150W<br>150W<br>150W        | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495<br>2,800<br>3,100<br>4,995<br>5,500<br>25,000<br>43,500<br>2,385                            | Plinius SA250/3 Roksan ROK-M1.5 Rowland Model 2 Rowland Model 8T Rowland Model 8T Shearne Phase 1 Pwr Ref Siemel TA20 Sonic Frontiers Power 1 Sonic Frontiers Power 2 Sonic Frontiers Power 3 Sony TA-N1 Sugden Masterdass Power Sumo Model Ten/M Sunfire Load Invariant Sunfire Load Invariant Sunfire Signature  | 75W<br>150W<br>250W<br>350W<br>100W<br>50W<br>55W<br>110W<br>220W<br>200W<br>75W<br>240W<br>300W<br>600W                  | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,350<br>2,499<br>4,999<br>4,500<br>2,995<br>4,200<br>2,280<br>2,600                            | Cambridge Atlantic Cambridge Arctic Cambridge Pacific Cambridge Studio Ref. Cambridge Silver Spiri Cardas Audio 3008-Mi Cardas Audio 3008-Mi Cardas Audio Cardas C Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Hocklink Cardas Audio Golden ChordCo Cobra 2 ChordCo Cobra 2 ChordCo Chameleon 2 ChordCo Chameleon  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum A500SE Magnum A500SE Malnosh MC7100 Meracus Giere Meridian 555 Meridian 556 Mendian 557   | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W<br>120W<br>125W<br>200W<br>125W<br>200W<br>100W<br>60W<br>100W<br>160W<br>160W        | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>685<br>825<br>1,485<br>1,595<br>1,999<br>1,095<br>750<br>895                     | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-35 Belcanto SET40 Belcanto SET40 Belcanto Crfeo 305 Belcanto SET80 Border Patrol 300B SE Border Patrol 300B SE (WE) Boulder 102M Boulder 102M Boulder 500AE Boulder 500AE Boulder 2050  | 140W<br>300W<br>149W<br>230W<br>40W<br>35W<br>10W<br>100W<br>100W<br>150W<br>150W<br>150W<br>150W<br>150               | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495<br>2,800<br>3,100<br>4,995<br>5,500<br>25,000<br>43,500<br>2,385<br>2,695                   | Plinius SA250/3<br>Rolsan ROK-M1.5<br>Rowland Model 2<br>Rowland Model 8T<br>Rowland Model 8T<br>Rowland Model 9T<br>Shearne Phase 1 Pwr Ref<br>Siemel TA20<br>Sonic Frontiers Power 1<br>Sonic Frontiers Power 2<br>Sonic Frontiers Power 3<br>Sonic Frontiers Power 3<br>Sundant Masterclass Power<br>Sumo Model Tery/M | 75W<br>150W<br>250W<br>350W<br>100W<br>50W<br>55W<br>110W<br>220W<br>220W<br>240W<br>300W                                 | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,350<br>2,499<br>4,999<br>8,599<br>4,500<br>2,995<br>4,200<br>2,280                            | Cambridge Atlantic Cambridge Pactic Cambridge Pactic Cambridge Studio Ref. Cambridge Silver Spiri Cardas Audio Sou8-Mi Cardas Audio Quadlin Cardas Audio Quadlin Cardas Audio Cardas ( Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Hocolden ChordCo Chrysalis ChordCo Cobra 2 ChordCo Siren  |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn LK240 Linn MV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum A500SE Magnum A500SE Magnum A500SE McIntosh MC7100 Meracus Ciere Mendian 555 Mendian 555 Mendian 556 Mendian 505 Michell Alecto Stereo Michell Alecto Mono Monrio Asty P   | 150W<br>120W<br>60W<br>75W<br>90W<br>50W<br>120W<br>120W<br>125W<br>200W<br>100W<br>60W<br>60W<br>200W<br>100W                         | 1,990<br>1,850<br>999<br>1,599<br>1,999<br>650<br>750<br>1,200<br>985<br>825<br>1,485<br>1,595<br>1,999<br>1,095<br>750<br>895<br>1,400<br>1,590<br>1,590 | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-35 Belcanto SET40 Belcanto Offeo 30S Belcanto SET80 Border Patrol 300B SE Border Patrol 300B SE (WE) Boulder 102AE Boulder 102AE Boulder 102AE Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THXBB Canary Audio CA-304 Canary Audio CA-301 Canary Audio CA-301 Canary Audio CA-303 | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>80W<br>90W<br>100W<br>150W<br>150W<br>150W<br>150W<br>150W        | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495<br>2,800<br>3,100<br>4,995<br>5,500<br>25,000<br>43,500<br>2,385<br>2,695<br>2,995<br>5,495 | Plinius SA250/3 Roksan ROK-M1.5 Rowland Model 2 Rowland Model 8T Rowland Model 8T Rowland Model 9T Shearne Phase 1 Pwr Ref Siemel TA20 Sonic Frontiers Power 1 Sonic Frontiers Power 2 Sonic Frontiers Power 3 Sony TA-N1 Sugden Masterclass Power Sumo Model Ten/M Sunfire Load Invariant Sunfire Signature T-A A3000 TACT Millenium II TAG McLaren 125M  | 75W<br>150W<br>250W<br>350W<br>100W<br>55W<br>110W<br>220W<br>200W<br>75W<br>240W<br>300W<br>600W<br>190W                 | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>2,399<br>2,350<br>2,499<br>4,999<br>4,500<br>2,995<br>4,200<br>2,850<br>7,000<br>2,359                    | Cambridge Atlantic Cambridge Pacific Cambridge Pacific Cambridge Studio Ref. Cambridge Silver Spiri Cardas Audio 3008-Mi Cardas Audio 3008-Mi Cardas Audio Cardas C Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Hotelink- Cardas Audio Colden ChordCo Chysalis ChordCo Cobra 2 ChordCo Siren ChordCo Chameleon 1 ChordCo Chameleon 1 Clearaudio Trident Clearaudio Trident Clearaudio Fhocus                       |
| Jadis DAS Krell KAV150a Lexicon 212 LED PA1 Powerstage LED PA2 Powerstage LED PA2M Powerstage LIN LK100 Linn LK240 Linn AV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum MF660 Magnum MF660 Magnum MF660 Magnum MF655 Mendian 555 Mendian 555 Mendian 555 Mendian 555 Mendian 557 Mendian 555 Mendian 556 Mendian 557 Mendian Mendian 557 Mendian | 150W<br>120W<br>75W<br>90W<br>50W<br>120W<br>120W<br>120W<br>120W<br>120W<br>120W<br>100W<br>10  | 1,990 1,850 1,999 1,599 1,999 650 750 1,200 985 825 1,485 1,595 1,999 1,095 750 895 1,400 1,590 1,150 1,950 599   | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-35 Belcanto SET40 Belcanto SET80 Border Patrol 300B SE Border Patrol 300B SE (WE) Boulder 102AE Boulder 102AE Boulder 500AE Boulder 500AE Boulder 2050 Bryston THX8B Canary Audio CA-304 Canary Audio CA-301 Canary Audio CA-303 Cary CAD-572SE   | 140W<br>300W<br>149W<br>230W<br>40W<br>35W<br>80W<br>10W<br>100W<br>150W<br>150W<br>600W<br>999W<br>150W<br>40W<br>22W | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495<br>2,800<br>4,995<br>5,500<br>43,500<br>2,500<br>2,500<br>2,995                             | Plinius SA250/3 Roksan ROK-M1.5 Rowland Model 2 Rowland Model 6 Rowland Model 8T Rowland Model 9T Shearne Phase 1 Pwr Ref Siemel TA20 Sonic Frontiers Power 1 Sonic Frontiers Power 2 Sonic Frontiers Power 3 Sony TA-N1 Sugden Masterclass Power Sumo Model Tery/M Sunfire Load Invariant Sunfre Signature T+A A3000 TACT Millenium II TAG McLaren 125M Talk Electronics Tornado 5  | 75W<br>150W<br>250W<br>350W<br>100W<br>55W<br>110W<br>220W<br>200W<br>75W<br>240W<br>460W<br>190W<br>150W<br>145W<br>200W | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>27,999<br>2,350<br>2,499<br>4,509<br>4,509<br>4,509<br>2,280<br>2,680<br>2,680<br>7,000<br>2,359<br>2,100 | Cambridge Atlantic Cambridge Pacific Cambridge Pacific Cambridge Studio Refi Cambridge Silver Spiri Cambridge Silver Spiri Cardas Audio Soud-Mi Cardas Audio Quadlin Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Hexlink- Cardas Audio Golden ChordCo Chrysalis ChordCo Cobra 2 ChordCo Siren ChordCo Chameleon : ChordCo Chameleon : ChordCo Chameleon : ChordCo Chameleon : Clearaudio Trident Clearaudio Phocus Clearaudio Silverline |
| Jadis DAS Krell KAV150a Lexicon 212 LFD PA1 Powerstage LFD PA2 Powerstage LFD PA2M Powerstage LFD PA2M Powerstage Linn LK100 Linn LK240 Linn LK240 Linn MV5105 Lynwood Ruby Magnum MF330 Magnum MF660 Magnum A500SE Magnum A500SE Magnum A500SE McIntosh MC7100 Meracus Ciere Mendian 555 Mendian 555 Mendian 556 Mendian 505 Michell Alecto Stereo Michell Alecto Mono Monrio Asty P   | 150W<br>120W<br>60W<br>75W<br>90W<br>120W<br>120W<br>125W<br>200W<br>200W<br>100W<br>60W<br>60W<br>160W<br>160W<br>160W<br>160W<br>160 | 1,990 1,850 999 1,599 1,999 1,599 1,200 985 685 825 1,485 1,595 1,999 1,095 750 895 1,400 1,590 1,150 1,950   | Audio Valve Challenger 115 Audio Valve Challenger 140 Audio Valve Challenger 300 Audio Valve Challenger 300 Audio Valve Baldur 200 Plus Audiolabor 500 Beam-Echo DL7-35 Belcanto SET40 Belcanto Offeo 30S Belcanto SET80 Border Patrol 300B SE Border Patrol 300B SE (WE) Boulder 102AE Boulder 102AE Boulder 102AE Boulder 500AE Boulder 500M Boulder 2060 Boulder 2050 Bryston THXBB Canary Audio CA-304 Canary Audio CA-301 Canary Audio CA-301 Canary Audio CA-303 | 140W<br>300W<br>149W<br>230W<br>30W<br>40W<br>35W<br>100W<br>100W<br>150W<br>150W<br>600W<br>150W<br>40W<br>22W<br>24W | 7,995<br>8,995<br>5,998<br>3,525<br>3,450<br>4,750<br>6,750<br>3,995<br>4,495<br>2,800<br>3,100<br>4,995<br>5,500<br>25,000<br>43,500<br>2,385<br>2,695<br>2,995<br>5,495 | Plinius SA250/3 Roksan ROK-M1.5 Rowland Model 2 Rowland Model 8T Rowland Model 8T Rowland Model 9T Shearne Phase 1 Pwr Ref Siemel TA20 Sonic Frontiers Power 1 Sonic Frontiers Power 2 Sonic Frontiers Power 3 Sony TA-N1 Sugden Masterclass Power Sumo Model Ten/M Sunfire Load Invariant Sunfire Signature T-A A3000 TACT Millenium II TAG McLaren 125M  | 75W<br>150W<br>250W<br>100W<br>50W<br>50W<br>110W<br>220W<br>200W<br>75W<br>240W<br>300W<br>600W<br>190W                  | 5,850<br>2,250<br>4,999<br>10,999<br>12,499<br>2,399<br>2,350<br>2,499<br>4,999<br>4,500<br>2,995<br>4,200<br>2,850<br>7,000<br>2,359                    | Cambridge Atlantic Cambridge Arctic Cambridge Pacific Cambridge Studio Ref Cambridge Studio Ref Cambridge Stlver Spiri Cardas Audio 3008-M Cardas Audio Gudell Cardas Audio Cardas Cardas Audio Hexlink Cardas Audio Offen Cardas Audio Offen ChordCo Chrysalis ChordCo Ciren ChordCo Chameleon ChordCo Chameleon ChordCo Charus Clearaudio Trident Clearaudio Trident Clearaudio Procus  |

5W 18W 8W 6,150 6,400 9,700 9,700 4,700 6,400 2,500 6,250 21,750 24,750 2,500 2,500 2,7500 2,7500 2,350 4,400 6,650 6, no Mono 5W 8W 18W 100W 150W 65W 50W 10W 35W 15W 100W Mono Sig. DMA amp 45W 200W 70W 45W 70W 85W 100W 250W 100W



## Interconnects

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re terminated pair. ikos

\*\*\* 260.00 469.00 120.00 255.00 865.00 00 515.00 0 450.00 ise 2 2 80.00 125.00 x3 200.00 260.00 х3 399.00 48.00 Blue Blue Plus Ser. 2 d 2/CD d 2/Tape 0000000000000000 58.00 125.00 26.00 47.00 50.00 onal 2 st 2 e 2 e 2 Gold 85.00 100.00 150.00 300.00 10.00 20.00 0 70.00 oirit 40 \*\*\* J-Microtwin dlink-Five as Cross nk-Five C 115.00 200.00 360.00 530.00 600.00 700.00 nk Golden-5 C en Cross \*\*\*\* 69.00 n 2 199.00 85.00 215.00 265.00 320.00 365.00 3,395 Clearaudio Sixstream

#### P R I - F I

| e di manti                                       | 928      |   | 4.5               | ı |  |
|--|----------|---|-------------------|---|--|
| Connections UK Ultra Connections UK Midas        | 0        |   | 28.00<br>39.00    |   | Precious Metals SS104<br>Precious Metals SS200   |
| Connections UK HD                                | <b>③</b> |   | 46.00             |   | Precious Metals SS200                            |
| DBF Acoustics Black Velvet                       | 0        |   | 30.00             |   | Precious Metals SS203                            |
| DBF Acoustics Black Velvet SE                    | 0        |   | 40.00             |   | Precious Metals SS204                            |
| DBF Acoustics Azure SE                           |          |   | 75.00             |   | Prowire Silver                                   |
| DNM-Reson TCC75<br>DPA Slink                     |          |   | 35.00<br>41.00    |   | PAD Elementa<br>OED Onect 2                      |
| DPA White Slink                                  |          |   | 75.00             |   | QED Quect 4S                                     |
| DPA Black Slink                                  |          | • | 220.00            |   | Roksan ROK-Intercon                              |
| Ecosse Ref CA1                                   | 0        |   | 65.00             |   | Shinpy Red Devil                                 |
| Ecosse Ref CS1<br>Ecosse Ref MA2                 | 0        |   | 75.00             |   | Shinpy Red Star 2                                |
| Ecosse Ref MS2                                   | •        |   | 155.00<br>165.00  |   | Shinpy Black Star 2<br>Shinpy Pulsar 2           |
| Ecosse Ref US1                                   | 0        |   | 550.00            |   | Shinpy Quasar 2                                  |
| Expressive Tech IC-1                             | 0        |   | 700.00            |   | Siltech MC2-12                                   |
| Gamma Wow Balance                                | 0        |   | 799.00            |   | Siltech MC4-24S                                  |
| Goertz M1 Interconnect GT Audio Intercon         | 0        |   | 145.00            |   | Siltech FTM-3S                                   |
| Harmonix HS-102                                  |          | • | 130.00<br>195.00  |   | Silver Sounds SS2<br>Silver Sounds SS1           |
| Harmonix HS-101                                  |          |   | 265.00            |   | Silver Tone Ex-Static                            |
| Henley HSP10                                     | <b>3</b> |   | 20.00             |   | Silver Tone Sci-Fi                               |
| Henley HSP50                                     |          |   | 35.00             |   | SME S2LB-4                                       |
| Henley HSP100                                    | 0        |   | 65.00             |   | SME S3LB-4<br>SME 4900A                          |
| Henley HSP200<br>Henley HSP250                   | •        |   | 95.00<br>150.00   |   | SME 5900A  |
| Heybrook Black Flash                             | 9        | • | 39.00             |   | SonicLink Red                                    |
| Insert Audio Focus 1.2                           | 0        |   | 21.50             |   | SonicLink Silver pink                            |
| Insert Audio IC100 Mk II                         |          |   | 46.95             |   | SonicLink Black                                  |
| Insert Audio Image 5.1                           | 0        |   | 84.95             |   | SonicLink Lilac                                  |
| Insert Audio Status 3.4<br>Ixos 104              | <b>③</b> |   | 160.00            |   | SonicLink Violet<br>SonicLink Maroon             |
| lxos 1003  | •        |   | 30.00             |   | SonicLink Blue Nickel                            |
| lxos Gamma 1002                                  |          |   | 39.95             |   | SonicLink Vermilion                              |
| lxos 103   |          |   | 45.00             |   | SonicLink Red earth                              |
| lxos 102<br>lxos 101                             | 0        |   | 60.00             |   | SonicLink Black earth<br>SonicLink Blue earth    |
| lxos 100.XO3                                     | <b>③</b> |   | 150.00            |   | SonicLink Black Rhodium                          |
| Kimber PBJ/Ultraplate                            |          |   | 68.00             |   | Straight Wire Chorus                             |
| Kimber KC1                                       | 0        |   | 96.00             |   | Straight Wire Sonata                             |
| Kimber Hero                                      |          |   | 110.00            |   | Supra DAC-X                                      |
| Kimber Silver Streak<br>Kimber KCAG              | 0        |   | 180.00<br>390.00  |   | Supra EFF-ISL<br>Supra EFF-XLR                   |
| Kimber KCTG                                      | 0        |   | 720.00            |   | Tara Prism 5                                     |
| LAT International IC-50                          | 0        |   | 37.00             |   | Tara Prism 55i                                   |
| LAT International IC-80 MkII                     | 3        |   | 58.00             |   | Tara RSC Axiom                                   |
| LAT International IC-100 MkII                    |          | • | 95.00             |   | Tara RSC-Prime Gen/2                             |
| LAT International IC-200 Mk II<br>Lieder Chanson | •        | • | 151.00<br>340.00  |   | Tara RSC-Ref Gen. 2<br>Tara RSC Air 3            |
| Lieder Lek                                       | 0        |   | 420.00            |   | Tara RSC Air 2                                   |
| Lieder Het Lied                                  | 0        |   | 420.00            |   | Tara RSC Air 1                                   |
| Lieder Song                                      | 0        |   | 580.00            |   | Tara ISM The Three                               |
| Lieder Maas<br>Lieder Rijn                       | 0        | 1 | ,000.00           |   | Tara ISM The 2<br>Tara ISM The One               |
| Lieder Waal                                      | •        |   | ,400.00           |   | Transparent Cable Musichord                      |
| Lumley Silver 12/2                               | 0        |   | 115.00            |   | Transparent Cable The Link                       |
| Lumley Silver 14/4                               | 0        |   | 175.00            |   | Transparent Cable Music Link                     |
| Monster Interlink 100<br>Monster Interlink 200   | 0        |   | 11.00             |   | Trichord Pulsewire 75                            |
| Monster Interlink 300 Mkll                       | 0        |   | 23.00             |   | Vampire Wire CC<br>Vampire Wire CCC/II           |
| Monster Interlink 400 MkII                       | 0        |   | 50.00             |   | Vampire Wire SC/II                               |
| Moth Leyline Black                               | 0        |   | 100.00            |   | Vampire Wire SC/IV                               |
| Moth Leyline Grey                                | 0        |   | 200,00            |   | Vampire Wire Al/2                                |
| Nordost Magic                                    |          | • | 35.00             |   | Vampire Wire SL                                  |
| Nordost Black Knight<br>Nordost Solar Wind       | 0        |   | 60.00<br>84.95    |   | van den Hul Storm II<br>van den Hul PB5 HB       |
| Nordost Blue Angel                               | •        |   | 98.00             |   | van den Hul Source HB                            |
| Nordost Blue Heaven I/C                          | 0        |   | 150.00            |   | van den Hul D102 III                             |
| Nordost Red Dawn                                 | 0        |   | 300.00            |   | van den Hul Thunderline HB                       |
| Nordost SPM                                      | 0        |   | 825.00            |   | van den Hul First Classic                        |
| Nordost Quattrofil Ortofon 7N interconnect       | 0        |   | ,250.00<br>250.00 |   | van den Hul Second<br>van den Hul First Ultimate |
| Precious Metals SS50                             | •        |   | 50.00             |   | van den Hul MC Gold                              |
| Precious Metals SS35                             | 0        |   | 50.00             |   | van den Hul MC Silver IT                         |
| Precious Metals SS52                             | <b>③</b> |   | 70.00             |   | van den Hul MC Silver IT Bal                     |
| Precious Metals SS53 Precious Metals SS100       | 0        |   | 90.00             |   | Wireworld Orbit<br>Wireworld Solstice II         |
| Precious Metals SS100<br>Precious Metals SS102   | <b>③</b> |   | 100.00            |   | XLO Type ER-6                                    |
| Precious Metals SS102                            | <b></b>  |   | 160.00            |   | XLO Type ER-2                                    |

| 0  |   | 190.00   |
|--|---|--|
| 0  |   | 220.00   |
|  |   |  |
| 0  |   | 290.00   |
| 0  |   | 360.00   |
| (CE   1997   |   | 430.00   |
| 0  |   | 450.00   |
|  |   | 60.00  |
| 60   |   | 145.00   |
| 60   |   | 143.00   |
|  |   | 30.00  |
| 6  |   | 70.00  |
| 0  |   | 70.00  |
| 0  |   | 75.00  |
| 0  |   | 80.00  |
| 0  |   | 120.00   |
| 3  |   | 120.00   |
| 0  |   | 240.00   |
|  |   | 495.00   |
| 0  |   |  |
|  |   | 850.00   |
| 0  |   | 308.00   |
|  |   |  |
| 0  |   | 400.00   |
| 0  |   | 730.00   |
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| 0  |   | 99.00  |
| 0  |   | 199.00   |
| •  |   | 75.00  |
|  |   | 33.00  |
| 0  |   | 95.00  |
| 0  |   | 46.18  |
|  |   |  |
| 0  |   | 52.06  |
| 0  |   | 76.83  |
|  |   |  |
| 0  |   | 102.57   |
| 0  |   | 25.00  |
| 4  |   | 75.00  |
| 0  |   | 35.00  |
| <b>(3)</b>   |   | 50.00  |
| •  |   | CF 00  |
| 63   |   | 65.00  |
| 0  |   | 85.00  |
|  |   | 125.00   |
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| •  | • | 40.00  |
| <b>③</b>   | • | 40.00  |
| <b>***</b>   | • | 40.00  |
| •  | • | 40.00<br>80.00   |
| 0 0 0  | • | 40.00<br>80.00<br>60.00  |
| 0000   | • | 40.00<br>80.00   |
| 0  | • | 40.00<br>80.00<br>60.00<br>80.00   |
| <b>(1)</b>   | • | 40.00<br>80.00<br>60.00<br>80.00<br>90.00  |
| 0  | • | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00  |
| <b>(1)</b>   |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00   |
| 000  | • | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00   |
| 000  |   | 40.00<br>80.00<br>60.00<br>90.00<br>21.95<br>100.00<br>137.00<br>124.50<br>336.00<br>560.00<br>790.00  |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00<br>1,144.00   |
| ***************************************  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00<br>1,144.00<br>2,175.00   |
| 000  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00<br>1,144.00   |
| ***************************************  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00<br>1,144.00<br>2,175.00<br>48.00  |
| ***************************************  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00<br>1,144.00<br>2,175.00   |
| ***************************************  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>790.00<br>894.00<br>1,144.00<br>2,175.00<br>48.00<br>92.00<br>119.00   |
| ***************************************  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00<br>1,144.00<br>2,175.00<br>48.00  |
| ***************************************  |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>124.50<br>336.00<br>560.00<br>790.00<br>894.00<br>1,144.00<br>2,175.00<br>48.00<br>92.00<br>119.00   |
| <b>*************************************</b>   |   | 40.00<br>80.00<br>60.00<br>80.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00<br>48.00<br>92.00<br>119.00<br>24.00  |
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| © © © © © © ©  |   | 40.00<br>80.00<br>60.00<br>90.00<br>21.95<br>100.00<br>137.00<br>170.00<br>224.50<br>336.00<br>560.00<br>790.00<br>894.00<br>1,144.00<br>92.00<br>119.00<br>169.00<br>24.00<br>58.00   |
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| \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$   |   | 40.00<br>80.00<br>60.00<br>90.00<br>21.95<br>100.00<br>170.00<br>124.50<br>336.00<br>790.00<br>894.00<br>1,144.00<br>2,175.00<br>48.00<br>92.00<br>119.00<br>24.00<br>58.00<br>98.00<br>144.00   |
| © \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$   |   | 40.00<br>80.00<br>90.00<br>11.95<br>10.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00<br>170.00  |
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| UL   | GU |    | ,   |
|--|----|----|---|
| XLO Pro 125 XLO Type ER-1 XLO Type ER-5 XLO Pro 150 XLO Type ER-4 XLO Pro 100 XLO Pro 100 XLO Ultra 1 XLO Ultra 1 XLO Ultra 2 XLO Ref 2 XLO Signature 1.1 XLO Sig 2.1 XLO Similared Ed'n |    |    | 40.00<br>40.00<br>50.00<br>70.00<br>99.00<br>119.00<br>169.00<br>199.00<br>625.00<br>675.00<br>750.00 |
| 0  |    | らう |   |

### **CABLES Digital Interconnects**

Stranded construction. Solid-core construction. Prices of interconnects are for a one-metre terminated pair.

| Apertura Model B               | 0        |   | 139.00 |
|--------------------------------|----------|---|--------|
| Apertura Model A               | 0        |   | 255.00 |
| Art Yam Church 5000            | 0        |   | 275.00 |
| Audioquest Digital/video 1     |          | • | 30.00  |
| Audioquest Digital/video 2     |          | 0 | 60.00  |
| Audioquest Optilink X          |          |   | 90.00  |
| Audioquest Digital PRO         |          | • | 100.00 |
| Audioquest Optilink Pro        |          |   | 150.00 |
| Audioquest Optilink Z          |          |   | 180.00 |
| Audiosource Petros Blue Plus S | 0        |   | 35.00  |
| Audiosource Stratos Ser. 2     | 0        |   | 59.00  |
| Cable Talk Digital 2           | 0        |   | 78.00  |
| Cardas Audio Lightning         | 0        |   | 190.00 |
| ChordCo Codac                  | 0        |   | 38.00  |
| ChordCo Optichord              |          |   | 40.00  |
| ChordCo Prodac                 |          |   | 50.00  |
| DNM-Reson DIG100               |          | • | 26.00  |
| DPA Opti-link                  |          |   | 20.00  |
| DPA Digi-link                  | 0        |   | 27.50  |
| Ecosse Ref MD2                 |          |   | 71.50  |
| Harmonix HS-101DIG             |          |   | 240.00 |
| Insert Audio Dataline 500      | <b>③</b> |   | 24.95  |
| Insert Audio Optic 2.1         |          |   | 29.95  |
| Insert Audio Dataline 700      | 0        |   | 39.95  |
| Insert Audio Image 5.1         | 0        |   | 44.95  |
| lxos 105                       |          |   | 25.00  |
| lxos 106                       |          |   | 30.00  |
| Kimber Opti-link               |          |   | 50.00  |
| Kimber Illuminati DV-30        | 0        |   | 70.00  |
| Kimber Illuminati D-60         | 0        |   | 325.00 |
| Kimber Illuminati DX-50        | 0        |   | 350.00 |
| Kimber Illuminati Orchid       | 0        |   | 750.00 |
| LAT International DI-20-D      | 0        |   | 79.00  |
| Monster Datalink 100           |          |   | 47.00  |
| Monster Lightspeed 100         |          |   | 47.00  |
| Moth Leyline Datalink          | 0        |   | 140,00 |
| Nordost Moonglo                | 0        |   | 155.00 |
|                                |          |   |        |

Precious Metals SD35 Precious Metals SD100 0 Precious Metals SD200 Precious Metals SD202 0 OED Optiflex QED Qnect OT Roksan ROK-Intercon 0 Shinpy Digital Supra ZAC Supra EFF-ID 0 Supra DAC-XLR Tara Prism D-1 0 Tara Prism D-2
Tara RSC Air Dig. 75
Tara RSC Air Dig. 110
Tara ISM The One Dig. Theta AT&T Transparent Cable PDL 0 Trichord Pulsewire 75D Vampire Wire DI/1 van den Hul Source HB 0 van den Hul AES-EBU 110 0 van den Hul Second van den Hul First Ultimate 0 XLO Pro 104 XI O Ultra 4 • XLO Sig 4.1 XLO Limited Ed'n

50.00

145.00

25.00

30.00 45.00

265.00

44 95

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45.00 59.99

119.99 345.00 450.00 995.00

550.00

199.00

75.00 150.00

75.00

150.00

180.00

89 00 180.00

325.00 1,100.00



#### SPEAKER CABLES

335.00

Stranded construction.

Solid-core construction. Price per mono metre, unterminated.

Acoustic Energy AESC-C3 11 95 0 Apertura Silver 82 50 000000 35.00 Argento Copper Argento Copper Ref 65.00 Argento Silver 125.00 Argento Silver Ref Art Yam Church M2000 380.00 470.00 Art Yam Church 5000 Audio Note AN-D 795.00 Audio Note AN-B Audio Note AN-L Audio Note AN-SP Audio Note AN-SPx 450.00 0 Audioquest Type 2 3.50 Audioquest F-18
Audioquest Type 6+ Audioquest Indigo + • 15.00 Audioquest Forest + 75.00

# series

- ·2' way design
- ·30 20,000Hz
- ·6mm wall aluminium extrusion
- ·Nominal power holding up to 130 Watts rms
- ·Solid wood fronts



Nordost Silver Shadow



systems

Sonic Elegance: Curved space for a flat frequency response

> oheocha design • revolution

XLO Type ER-2

| Audioquest Argent +<br>Audioquest Clear 3              |          | <ul><li>125.00</li><li>200.00</li></ul> | Precious Metals SL106<br>Precious Metals SL108  | •                                       | 30.00<br>40.00                          | XL(        |
|--|----------|---|---|---|---|------------|
| Cable Talk Theatre 2                                   | •        | 1.75                                    | Puresonic OFC 7892  | •                                       | 1.20                                    | XLO        |
| Cable Talk Flat 1                                      | •        | 2.00                                    | Puresonic OFC 7844  | 0                                       | 1.65                                    |            |
| Cable Talk Talk 3.1                                    | •        | 2.50                                    | Puresonic OFC 7845  | 0                                       | 1.95                                    |            |
| Cable Talk Flat 1 Biwire<br>Cable Talk Talk 4.1        | •        | 4.00<br>4.50                            | Puresonic OFC 7891<br>Puresonic OFC 7816  | 0                                       | 2.85<br>3.75                            |            |
| Cable Talk Talk 3.1 Biwire                             | •        | 5.00                                    | Puresonic OFC 7832  | 0                                       | 3.75                                    | 8          |
| Cable Talk Flat 2                                      | •        | 5.00                                    | Puresonic OFC 7812  | •                                       | 3.75                                    |            |
| Cable Talk Concert 2.1                                 | 0        | 8.00                                    | Puresonic OFC 7825  | •                                       | 6.95                                    |            |
| Cable Talk Talk 4.1 Biwire                             | •        | 9.00                                    | Puresonic PSOCC 7801  | •                                       | 9.50                                    |            |
| Cable Talk Flat 2 Biwire                               | 0        | 10.00                                   | Puresonic PSOCC 7802  | 0                                       | 18.00                                   | 100        |
| Cable Talk Symphony 3                                  | •        | 14.00                                   | Puresonic PSOCC 7803  | •                                       | 27.00                                   |            |
| Cable Talk Concert 2.1 Biwire                          | •        | 16.00                                   | QED Qudos Micro   | •                                       | 1.25                                    |            |
| Cardas Audio 300B-Microtwin S                          |          | 35.00                                   | QED Qudos micro 4 core  | •                                       | 2.00                                    |            |
| Cardas Audio Quadlink-Five SC                          | •        | 59.00                                   | QED Qudos 4 core  | •                                       | 4.00                                    |            |
| Cardas Audio Cross SC<br>Cardas Audio Hexlink-Five SC  | 0        | 99.00<br>109.00                         | QED Qudos Bi-Wire QED Qudos Silver  | <b>©</b>                                | 4.50<br>5.00                            |            |
| Cardas Audio Hexlink Golden5 S                         |          | 175.00                                  | QED Profile 4x4   | •                                       | 9.00                                    |            |
| Cardas Audio Golden Cross SC                           | •        | 789.00                                  | QED Profile Silver 12   | •                                       | 15.00                                   |            |
| ChordCo Carnival                                       | •        | 3.00                                    | Rega Speaker  | •                                       | 1.58                                    |            |
| ChordCo Myth   |          | 6.00                                    | Rega SC42   | •                                       | 19.98                                   |            |
| ChordCo Legend   | •        | 15.00                                   | Roksan ROK-Speaker  | •                                       | 6.00                                    | К          |
| ChordCo Odyssey  | •        | 17.00                                   | Shinpy Red Devil  | 0                                       | 30.00                                   | N          |
| DNM-Reson LSC  |          | <ul><li>6.95</li></ul>                  | Shinpy Red Star 2   | •                                       | 39.00                                   | r          |
| DNM-Reson LSCB   |          | <ul><li>13.95</li></ul>                 | Shinpy Black Star 2   | •                                       | 62.00                                   |            |
| Ecosse Ref FS2.16                                      | •        | 1.75                                    | Shinpy Pulsar 2   | •                                       | 104.00                                  | U          |
| Ecosse Ref CS2.2<br>Ecosse Ref CS2.3                   | 0        | 2.50<br>3.75                            | Shinpy Quasar 2<br>Siltech LS2-45   | •                                       | 208.00                                  |            |
| Ecosse Ref CS2.15                                      | •        | <ul><li>5.75</li></ul>                  | Siltech ES2-45<br>Siltech FT-12 Mkl   | •                                       | 240.00                                  | Au         |
| Ecosse Ref MS2.2                                       | •        | 15.00                                   | Siltech LS4-120   | 0                                       | 549.00                                  | Au         |
| Ecosse Ref MS2.3                                       | 0        | 20.00                                   | Silver Sounds 12 Gauge  | 0                                       | 15.00                                   | Au         |
| Ecosse Ref MS2.15                                      | •        | 30.00                                   | Silver Sounds 10 Gauge  | •                                       | 35.00                                   | Au         |
| Ecosse Ref US2   |          | <ul><li>450.00</li></ul>                | Silver Sounds 8 Gauge   | 0                                       | 75.00                                   | Au         |
| Gale XL105   | •        | 1.00                                    | Silver Tone Silver-Sonic  | 0                                       | 10.00                                   | Au         |
| Gale XL189   | •        | 1.00                                    | Silver Tone Silver-Sonic HC   | 0                                       | 15.00                                   | Be         |
| Gale XL315   | 0        | 2.00                                    | Silver Tone Silver-Voice  | •                                       | 55.00                                   | De<br>De   |
| Gale XL160-2<br>Gale XL315-2                           | 0        | 2.50<br>3.99                            | Silver Tone Silver-Voice Ultra<br>SonicLink AST50   | <b>3</b>                                | 85.00<br>1.95                           | De         |
| Gamma Wonder Line                                      | 0        | 99.00                                   | SonicLink AST60   |   | 2.50                                    | Go         |
| Goertz M1  | 6.5      | <ul><li>16.00</li></ul>                 | SonicLink AST75   | 0                                       | 2.95                                    | Go         |
| Goertz M2  |          | <ul><li>32.00</li></ul>                 | SonicLink AST200  | 0                                       | 5.95                                    | Go         |
| Goertz Big Boy   |          | <ul><li>64.00</li></ul>                 | SonicLink AST200x2  | •                                       | 9.95                                    | Go         |
| GT Audio Speaker                                       | •        | 50.00                                   | SonicLink S300  | 0                                       | 18.00                                   | Go         |
| Harmonix Harmonic-Strings                              |          | 30.00                                   | SonicLink S130x2  | 0                                       | 20.00                                   | Gra        |
| Harmonix HS-101T-1                                     |          | 56.00                                   | SonicLink S300x2  | 0                                       | 40.00                                   | Gra        |
| Harmonix HS-101SC                                      |          | 88.00                                   | SonicLink S900  | •                                       | 60.00                                   | Gra        |
| xos 607  | •        | 2.00                                    | SonicLink S600x2<br>SonicLink Black Rhodium 4   | •                                       | 1,000.00                                | Gra        |
| xos 6004<br>xos 6003                                   | 0        | 3.00<br>3.00                            | Straight Wire Rhythm  | <b>©</b>                                | 6.00                                    | Gra        |
| lxos 605   | 0        | 3.00                                    | Straight Wire Quartet   |   | 8.00                                    | Gra        |
| xos Gamma 6006   | 0        | 5.00                                    | Supra Classic 2.5   | •                                       | 2.49                                    | Gra        |
| Kımber 4PR   | 0        | 5.00                                    | Supra Linc 2.5 Flex   | 0                                       | 3.49                                    | N'i        |
| Kımber 4VS   | •        | 9.00                                    | Supra Classic 4.0   | •                                       | 3.95                                    | Or         |
| Kimber 4TC   | •        | 19.60                                   | Supra Classic 6   | 0                                       | 4.95                                    | Or         |
| Kimber 8TC   | •        | 32.70                                   | Supra Ply 2.0   | 0                                       | 4.95                                    | Or         |
| Kimber 4AG   | •        | 394.00                                  | Supra Linc 4.0 Flex   | 0                                       | 4.95                                    | Or         |
| Kimber 8AG   | •        | 656.00                                  | Supra Ply 3.4   | •                                       | 6.95                                    | Or         |
| LAT International SS 800                               | •        | 16.00                                   | Supra Quattro 4x4   | 0                                       | 8.95                                    | Or         |
| LAT International BIWIRE                               | •        | 23.00                                   | Tara Klara Tara Prism 2+2   | 6                                       | 2.95<br>7.95                            | Or<br>Or   |
| LAT International SS 1000<br>Lieder Pad                | 0        | 36.00<br>133.00                         | Tara Prism Nexa   | 0                                       | 9.95                                    | Or         |
| Lieder Bel Canto                                       | 0        | 188.00                                  | Tara Prism Bi-Wire  | 6                                       | 18.00                                   | Or         |
| Lieder Spoor   | 6        | 253.00                                  | Tara RSC Prime 500  |   | <ul><li>43.00</li></ul>                 | Or         |
| ieder Straat   | 0        | 463.00                                  | Tara RSC Prime 1000   |   | <ul><li>73.00</li></ul>                 | Pic        |
| Lieder Weg   | 0        | 663.00                                  | Tara RSC Ref Gen/2  |   | <ul><li>118.00</li></ul>                | Pic        |
| inn K20  | <b>②</b> | 4.00                                    | Tara RSC Prime 1800   |   | <ul><li>150.00</li></ul>                | Pic        |
| Linn K400  | •        | 10.00                                   | Tara RSC Digital 75   |   | 230.00                                  | Pic        |
| Linn K600  | 0        | 15.00                                   | Tara RSC Air 2  |   | <ul><li>291.00</li></ul>                | Pio        |
| Lumley Silver 12/2<br>Lumley Silver 14/4               | 0        | 35.00                                   | Tara RSC Air 1<br>Tara ISM The Two  | 100                                     | <ul><li>466.00</li><li>708.00</li></ul> | Pio<br>Pio |
| Lumiey Silver 14/4<br>Monster XP Clear                 | 0        | 40.00                                   | Tara ISM The Two  |   | <ul><li>708.00</li><li>941.00</li></ul> | Pic        |
| Monster XP Clear                                       |          | 2.20                                    | Tech + Link SPC 79  | •                                       | 1.20                                    | Pic        |
| Monster Superflat Mini                                 |          | 2.75                                    | Transparent Cable Musichord   | <b>③</b>                                | 11.00                                   | Pic        |
| Monster XP HP  | •        | 3.70                                    | Transparent Cable The Wave  | 0                                       | 23.00                                   | Pic        |
| Monster Original                                       | 0        | 4.40                                    | Transparent Cable Music Wave  | 0                                       | 25.00                                   | Pic        |
| Monster New Monster                                    | 0        | 5.50                                    | Vampire Wire SC-384   | •                                       | 11.00                                   | Pio        |
| Naim NAC A5  | •        | 5.70                                    | Vampire Wire SC-554   | •                                       | 15.00                                   | Pic        |
| Nordost Octava   |          | 3.00                                    | Vampire Wire ST-I   |   | 30.00                                   | Pio        |
| Nordost 4-Flat   |          | 9.95                                    | Vampire Wire SC-1108  | 0                                       | 30.00                                   | Pio        |
| Nordost Solar Wind Bi-wire<br>Nordost Blue Heaven Spkr | 0        | 27.95<br>58.95                          | Vampire Wire ST-II<br>Vampire Wire ST-III   |   | <ul><li>48.00</li><li>73.00</li></ul>   | Re         |
| Nordost Red Dawn                                       | •        | 110.00                                  | van den Hul Skyline HB  | •                                       | <ul><li>73.00</li><li>3.99</li></ul>    | Re         |
| Nordost SPM  | •        | 325.00                                  | van den Hul Snowline  | •                                       | 5.49                                    | Re         |
| Ortofon SPK100   | 0        | 3.00                                    | van den Hul Skytrack HB   | •                                       | 5.99                                    | Sh         |
| Ortofon SPK200   | 0        | 5.00                                    | van den Hul Clearwater  | •                                       | 7.99                                    | Sh         |
| Ortofon SPK300   | •        | 8.00                                    | van den Hul Snowtrack   | •                                       | 10.99                                   | Sh         |
| Precious Metals SL32                                   | •        | 7.50                                    | van den Hul Royal Jade  | 0                                       | 10.99                                   | Sh         |
| Precious Metals SL102                                  | 0        | 10.00                                   | van den Hul CS122 HB  | 0                                       | 13,49                                   | Sh         |
| Precious Metals SL34                                   | 0        | 15.00                                   | van den Hul Cleartrack  | 0                                       | 14.99                                   | Sta        |
| Precious Metals SL104                                  | 0        | 20.00                                   | van den Hul D352 HB   | 0                                       | 21.00                                   | Sta        |
|  |          |   | van den Hul Teatrack HB   | 0                                       | 23.99                                   | Sta        |
|  |          | -                                       | van den Hul SCS12<br>van den Hul Magnum HB  | 0                                       | 36.00<br>40.00                          | Sta<br>Sui |
|  |          |   | van den Hul The Wind HB   | •                                       | 44.00                                   | Sui        |
|  | -7       | 7-7                                     | van den Hul Revolution HB   | •                                       | 80.00                                   | Su         |
|  |          |   | van den Hul Revelation HB   | •                                       | 120.00                                  | Sui        |
|  | _ 7      |   | van den Hul The Third   | 0                                       | 1,000.00                                | 1_         |
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XLO CDA 16/2

XLO CDA 16/4

XLO Pro 1200 XLO Ultra 6

XLO Ultra 12

XLO CDA ER-14 THX

XLO CDA ER-11 THX

XLO CDA ER-12 THX

| XLO Ref 2<br>XLO Sig 5.1<br>XLO Limited Ed'n   | 0 0            | 1            |
|--|----------------|--------------|
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| CARTRIDGES   | distriction    | S CONTRACTOR |
| MM - Moving-mag<br>MC - Moving-coil to   |                |              |
| Audio Note IO1 Audio Technica AT-91 Audio Technica AT-95E Audio Technica AT-110E Audio Technica AT-140ML Benz-Micro MC20EII Denon DL100 Denon DL160 Denon DL160 Denon DL160 Coldring IO06 Coldring IO06 Coldring IO12CX Goldring IO2CX Grado ZTE+1 Grado ZEE+1 Grado ZEE+1 Grado Prestige Black Grado Prestige Green Grado Prestige Green Grado Prestige Blue Grado ZF1+ Grado DF1+ Grado DF1+ Grado DF1+ Grado DF1+ Grado DF1+ Grado MT50 Ortofon OM 3E Ortofon OM 5E Ortofon OM 5D Ortofon OM 5D Ortofon OM 5D Ortofon MC1 Ortofon OM 20 Ortofon MC1 Ortofon MC1 Ortofon MC1 Ortofon MC1 Ortofon MC1 Drickering TE-15 Pickering V15-15 Pickering V |                | MC MC        |
| Sumiko Oyster<br>Sumiko Black Pearl<br>Sumiko Pearl<br>Sumiko Blue Point   | MM<br>MM<br>MM | мс           |
| OVER £100  |                | W            |
| Allaerts MC1 Eco<br>Allaerts MC1 B   |                | MC<br>MC     |
| Allaerts MC1 B Mkll<br>Allaerts MC2 Finish   |                | MC           |
| Audio Note IO2<br>Audio Note Soara<br>Audio Note IO1V  | ММ             | MC<br>MC     |
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MC 4,500 216.00 Audio Note IOLtd MC MC MC 1.660.00 Audio Technica AT-33PTG 489 Benz-Micro The Glider Benz-Micro Reference Benz-Micro Reference Ruby 1 100 Benz-Micro Ruby Open Air Clearaudio Alpha Mk 2 1.600 MM MM 190 250 Clearaudio Beta Mk 2 Clearaudio Beta-S Mk 2 Clearaudio Virtuoso 295 590 Clearaudio Sigma MC MC MC MC MC MC 810 960 Clearaudio Gamma-S Clearaudio Victory 1,540 2,515 Clearaudio Signature Clearaudio Accurate Clearaudio Insider Clearaudio Insider Ref. MC MC Dynavector 10X4II 189 Dynavector DV20XH MC Goldring Eroica Goldring 1042 Goldring Elite 99 15 119 28 Grado Prestige Silver MM Grado Signature Junior мм 90 Grado Signature 8MZ Grado Signature MCZ MM MM 250 375 70 Grado Signature TLZ 650 975 Grado Signature XTZ MM Koetsu Red T MC MC MC MC 1,359 Koetsu Red K Sig 1,899 Koetsu Urushi Koetsu Signature Koetsu Gold PR 27 37 48 49 59 69 83 99 5.498 MC MC 500 Linn Klyde 1,000 London Decca Gold 379 London Decca Maroon Dp MM MM MM 439 98 16 London Decca Gold Dp London Decca S Gold Dp 20 30 London Decca Jubilee 999 vra Clavis Da Capo 50 MM MM MM 70 N'ham Tracer II N'ham Tracer III 310 410 N'ham Tracer IV Ortofon MC15 Super II 80 Ortofon 540 Ortofon MC3 Turbo 20 25 25 28 35 45 50 50 55 Ortofon MC25FL MC 450 Ortofon MC20 Supreme Ortofon MC2000II MC 800 60 60 Ortofon MC7500 MC 2 000 Pickering TL-3003 Pickering XLZ-4500 Pickering TL-4004 70 80 150 175 95 100 Pickering XSV-5000U Pickering XLZ-7500 200 200 MM MM MM 100 Pickering TLZ-7500-S Rega Super Elys 200 150 39 59 Rega Exact 248 185 Reson Mica 21 Reson Aciore 299 MC MC 455 1,300 22 29 35 35 35 44 59 74 Reson Etile Reson Lexe Roksan Shiraz 990 MC 295 120 Stanton 890AL/X MC MC MC Transfiguration Esprit 950 30 50 Transfiguration Spirit Transfiguration Temper Supreme van den Hul DDT-II van den Hul MC-10 2.250 100 1,050 van den Hul MC-ONE Super MC van den Hul MC-Two van den Hul The Frog Low o/p 1,250 van den Hul The Frog HO MC 1,700 MC MC MC MC MC 2,200 2,995 van den Hul Grasshopper IIISLN van den Hul Grasshopper IIISLA 2,000 van den Hul White Beauty S-X van den Hul White Beauty HO 139 2,500 795 2.500

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| van den Hul Black Beauty       |
| Wilson Benesch Matrix          |
| Wilson Benesch Analog          |
| Wilson Benesch Carbon          |





## **CD PLAYERS**

**≡>** – Multiplayer: can be loaded with more than one disc. 1010 - Electrical (coaxial) digital output. Many players also include an optical (Toslink) output.

- Autoreverse - no need to remove and turn around the tape. 3-H - 3 heads, i.e. separate record and replay heads.

CASSETTE DECKS

#### **UP TO £200**

| Ariston WX-510     |       |                        | 70  |
|--------------------|-------|------------------------|-----|
| Denon DRM-550      |       |                        | 160 |
| Denon DRW-585      |       |                        | 200 |
| Goodmans Delta 801 |       |                        | 130 |
| H/K DC520          | _     |                        | 200 |
| JVC TD-X372BK      |       |                        | 170 |
| IVC TD-R472BK      |       |                        | 200 |
| Kenwood KX-W4080   | _     |                        | 160 |
| Kenwood KX-3080    |       |                        | 160 |
| Kenwood KX-W6080   | _     |                        | 200 |
| Kenwood KX-5080S   |       |                        | 200 |
| Marantz SD-455     | -     |                        | 170 |
| Marantz SD-57      |       |                        | 199 |
| Onkyo K 185        | -     |                        | 200 |
| Pioneer CT-S250    |       |                        | 150 |
| Pioneer CT-W205R   | -     |                        | 160 |
| Pioneer CT-W505R   | -     |                        | 180 |
| Pioneer CT-S450S   |       |                        | 200 |
| Pioneer CT-W606DR  | -     |                        | 200 |
| Sony TC-WE435      | -     |                        | 130 |
| Sony TC-KE230      |       |                        | 130 |
| Sony TC-WE635      | =     |                        | 150 |
| Sony TC-KB820S     |       |                        | 180 |
| Sony TC-WE835      | -     |                        | 200 |
| Teac W-416         |       |                        | 100 |
| Teac V-615         |       |                        | 130 |
| Teac RH-300        | -     |                        | 160 |
| Teac W-790R        | -     |                        | 170 |
| Teac V-1050        |       | 3-H                    | 180 |
| Teac RH-500        | -     |                        | 200 |
| Technics RS-BX501  | =     |                        | 170 |
| Technics RS-TR373  | -     |                        | 180 |
| Technics RS-TR474  | -     |                        | 200 |
| Technics RS-AZ6    |       | 3-H                    | 200 |
| Yamaha KX-393      |       |                        | 130 |
| Yamaha KX-W321     |       |                        | 170 |
| Yamaha KX-493      | 10000 | NAME OF TAXABLE PARTY. | 180 |

| Denon DRM-650S             |   |     | 230   |
|----------------------------|---|-----|-------|
| Denon DRM-740              |   | 3-H | 270   |
| Denon DRS-810              |   | 3-H | 310   |
| H/K TD420                  |   |     | 250   |
| JVC TD-V662BK              |   | 3-H | 270   |
| JVC TD-W718BK              | - |     | 300   |
| NAD 613                    |   |     | 230   |
| NAD 614                    |   |     | 270   |
| NAD 616                    | - |     | 300   |
| Nakamichi DR-10            |   | 3-H | 800   |
| Onkyo TA 6210              |   |     | 230   |
| Onkyo TARW 211             | - |     | 270   |
| Onkyo TARW 311             | - |     | 320   |
| Onkyo TA 6310              |   |     | 330   |
| Onkyo KR 609               |   |     | 350   |
| Onkyo KW 606               | - |     | 370   |
| Onkyo TARW 411             | - |     | 370   |
| Onkyo K 611                |   | 3-H | 460   |
| Pioneer CT-S550S           |   | 3-H | 250   |
| Pioneer CT-W806DR          | - |     | 300   |
| Pioneer CT-S550S Precision |   | 3-H | 340   |
| Pioneer CT-S830S           |   | 3-H | 500   |
| Pioneer CT-95              |   | 3-H | 1,000 |
| Rotel RC960BX              |   |     | 250   |
| Sony TC-KA6ES              |   | 3-H | 600   |
| T+A CC1200R                | - | 3-H | 1,180 |
| Teac W-860R                | - |     | 230   |
| Teac W-6000R               | = |     | 450   |
| Teac V-6030S               |   | 3-H | 550   |
| Teac V-8030S               |   | 3-H | 650   |
| Technics RS-AZ7            |   | 3-H | 270   |
|                            | - |     |       |

| optical (loslink) output.        |            | nonstant      | 2754 NEW TO |
|----------------------------------|------------|---------------|-------------|
| UP TO £250                       |            |               |             |
|                                  |            |               |             |
| Ariston CDX700                   |            |               | 50          |
| Ariston CDX710                   |            |               | 70          |
| Ariston CDX720                   |            |               | 80          |
| Cambridge CD5                    |            |               | 100         |
| Cambridge D100                   |            |               | 120         |
| Cambridge CD4                    |            | 1010          | 150         |
| Cambridge CD4SE                  |            | 1010          | 200         |
| Denon DCD-435                    |            |               | 130         |
| Denon DCD-635                    |            |               | 180         |
| Denon DCD-735                    |            |               | 230         |
| Eclipse CD101a                   |            |               | 40          |
| H/K HD720                        |            | 1010          | 200         |
| H/K FL8350                       | ■>         | 1010          | 200         |
| JVC XL-V120BK                    |            |               | 110         |
| JVC XL-V130BK                    |            |               | 120         |
| JVC XL-V230BK                    |            |               | 140         |
| JVC XL-F116BK                    |            |               | 180         |
| JVC XL-F216BK<br>JVC XL-Z574BK   | ■>         |               | 200         |
| Kenwood DP-1080                  |            |               | 110         |
| Kenwood DP-2080                  |            |               | 130         |
| Kenwood DP-R3090                 | =>         |               | 140         |
| Kenwood DP-R4090                 | -          |               | 160         |
| Kenwood DP-3080                  |            |               | 170         |
| Kenwood DPF-3010                 |            |               | 180         |
| Kenwood DP-R6090                 | <b>■</b> ► |               | 200         |
| Kenwood DP-4090                  |            | 1010          | 250         |
| Marantz CD-38                    |            | Щи            | 130         |
| Marantz CC-38                    |            |               | 200         |
| Marantz CD-48                    |            | 1010          | 200         |
| Marantz CD-57                    |            | 1010          | 230         |
| Marantz CD-67II                  |            | 1010          | 250         |
| NAD 522                          |            |               | 170         |
| NAD 510                          |            |               | 200         |
| NAD 524                          |            | <b>111</b> 10 | 250         |
| NAD 523                          | =          |               | 250         |
| NAD 512                          |            | 1010          | 250         |
| Pioneer PD-106                   |            |               | 130         |
| Pioneer PD-206                   |            |               | 150         |
| Pioneer PD-S507                  |            |               | 190         |
| Pioneer PD-F606                  | <b>■</b>   |               | 200         |
| Pioneer PD-M603                  | <b>■</b>   |               | 200         |
| Pioneer PD-F706                  | ■>         |               | 250         |
| Rotel RCD-930AX                  |            |               | 180         |
| Sansui CD220                     |            |               | 120         |
| Sherwood CD-4030R                |            |               | 180         |
| Sherwood CDC680                  | <b>*</b>   | 1010          | 180         |
| Sherwood CDC6050R                | ■>         | 1010          | 180         |
| Sony CDP-XE220                   |            |               | 90          |
| Sony CDP-XE330                   |            |               | 100         |
| Sony CDP-M305                    |            |               | 120         |
| Sony CDP-XE530                   |            |               | 130         |
| Sony CDP-CE335                   | =>         | FEDAR         | 160         |
| Sony CDP-XB720E                  |            | 1010          | March 1982  |
| Sony CDP-CX57<br>Sypermy CDI 210 | ■>         |               | 250         |
| Synergy CDJ1210<br>Teac CDP-1120 |            |               | 120         |
| Teac CD-P1820                    |            |               | 100<br>130  |
| Teac CD-P1440                    |            |               | 200         |
| Teac CD-P3450SE                  |            |               | 200         |
| Teac PD-D2400                    | ■>         |               | 200         |
| Teac PD-H500i                    |            | 1010          | 240         |
| Technics SL-PG390A               |            | 1010          | 90          |
| Technics SL-PG490A               |            | 1010          | 100         |
| Technics SL-PG590A               |            | 1010          | 120         |
| Technics SL-PD6                  | <b>■</b> ► | 1010          | 140         |
| Technics SL-PD8                  | <b>■</b>   | 1010          | 160         |
| Technics SL-PS670D               |            | <b>111</b> 10 | 200         |
| Technics SL-PS770D               |            | 1010          | 250         |
| Yamaha CDX-393 II                |            | 1010          | 130         |
| Yamaha CDC-575                   |            | 1010          | 180         |
| Yamaha CDX-493                   |            |               | 180         |
| Yamaha CDC-675                   | 1000       | 1010          | 230         |
| £251 TO £500                     |            |               | 1000        |

£251 TO £500

| Arcam Alpha 7 SE                    | 10 15    | 1010     | 3    |
|-------------------------------------|----------|----------|------|
| Arcam Alpha 8                       |          | 1010     | 4    |
| Arcam Alpha 8SE                     |          | 1010     | 50   |
| Cambridge CD6                       |          | 1010     | 30   |
| Cyrus dAD1.5                        |          | 1010     | - 39 |
| Denon DCD-835                       |          | 1010     | 28   |
| Denon DCM-260                       | ■        |          | 30   |
| Denon DCD-1550AR                    |          | 1010     | 31   |
| -t/K HD740                          |          | 1010     | 30   |
| H/K FL8550                          | =►       | ET010    | 30   |
| I/K HD760                           |          | 1010     | 50   |
| VC XL-Z674BK                        |          | 1010     | 30   |
| Kenwood DP-R7080                    | ■>       | 1010     | 30   |
| Kenwood DP-9090                     |          | 1010     | 30   |
| Kenwood DP-5090                     |          | 1010     | 30   |
| Kenwood DP-7090                     |          | 1010     | 40   |
| Marantz CD-67SE MkII                |          | 10 10    | 3(   |
| Marantz CD6000 OSE                  |          | 1010     | 30   |
| Marantz CC-870                      | ■        | 1010     | 40   |
| Marantz CD-63IIKI                   |          | 1010     | 40   |
| Musical Fi elity E60                |          | 1010     | 30   |
| Musical Fi elity A2 CD              |          | 1010     | 50   |
| Musical Fi elity E624               |          | 1010     | 50   |
| Myryad T-10                         |          | 1010     | 4(   |
| NAD 513                             |          |          | 29   |
| NAD 515                             | ■•       | 1010     | 35   |
| NAD 514                             |          | 1010     | 3    |
| NAD 517                             | €        |          | 40   |
| Nakamichi MB10                      | ■        | 1010     | 39   |
| Onkyo DX 7210                       |          | 1010     | 20   |
| Onkyo C721                          |          | 1010     | 38   |
| Onkyo DXC 320                       | <b>■</b> | 1010     | 4(   |
| Onkyo DX 7510                       | ■>       | Щи       | 45   |
| Onkyo CM 716<br>Parasound C/DP-1000 |          | III)10   | 49   |
| Pioneer PD-S707                     |          | 1010     | 3(   |
| Pioneer PD-F805                     | ■>       | Щіо      | 30   |
| Pioneer PD-S705                     |          | 1010     | 30   |
| Pioneer PD-F906                     | ⇛        | 23.0     | 31   |
| Pioneer PD-S904                     |          | 1010     | 40   |
| Pioneer PD-S505 Precision           |          | 1010     | 46   |
| Roksan Kandy                        |          | 1010     | 47   |
| Rotel RCD-951                       |          | 1010     | 30   |
| Rotel RCD-971                       |          | 1010     | 3!   |
| Sony CDP-XB930E                     |          | 1010     | 30   |
| Sony CDP-CX350                      | ■        |          | 35   |
| Sony CDP-XA20ES                     |          | 1010     | 45   |
| Sony CDP-X3000ES                    |          | 1010     | 50   |
| Sony CDP-CX260                      | ■>       |          | 50   |
| Synergy CDJ2010                     | ■>       |          | 30   |
| Fechnics SL-MC7                     | ■        | 1010     | 30   |
| /amaha CDX-993                      |          | 1010     | 4(   |
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| E501 TO £1,000                      |          |          |      |
| Acurus ACD11                        |          | 1010     | 89   |
| Alchemist Nexus                     |          | 1010     | 60   |
| Arcam Alpha 9                       |          | 1010     | 80   |
| Audio Analogue Paganini             |          | 1010     | 7:   |
| Audio Note CD1                      |          | 1010     | 59   |
| Audio Note AN-CD2                   |          | 1010     | 9    |
| Audiomeca Obsession                 |          | 1010     | 99   |

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Trichord Digital Jukebox 50

Trichord Digital J'box 100

Alchemist Forseti Int **10**10 Alchemist Forseti Audio Research CD2 Audiolabor 531 1010 1010 3 399 Audiomeca Keops Min 1500 Audiomeca Talisman 11110 Audiomeca Talisman SE Balanced VK-D5 2300 Cary CD-301 10 2 350 Conrad-Johnson DF-2 1695 Conrad-Johnson DV-2b 2.495 1,649 Copland CDA277 111111 Copland CDA289 Copland CDA288 Cymbol CDP12 Exposure CD Plave 1,250 2,250 Helios Model 1 10 Helios Stargate M10 Jadis Orchestra 1,345 Krell KAV250cd III110 2,490 Krell KAV300cd Krell KPS25s 1010 9.995 Linn Ikemi Linn Sondek CD12 Min 12.000 Marantz CD-17KIS Marantz CD-7 Madrigal 39 1010 McIntosh MCD7009 10 3 699 Meracus Tanto Meracus Imago Plaver 10 4,495 Meridian 508 Myryad MCD500 NAD S500 Naim CD3.5 Naim CDX 2 200 Oracle CD Player 1010 9,499 Pink Triangle Numeral FT110 1.049 1,500 Primare D302 11010 Resolution CD50 1499 Shearne Phase 7 FT010 Sherwood CD1 Sonic Frontiers Anthem CD1 Sonic Frontiers SFCD-1 2,700 Sony SCD-1 M110 T+A CD1220R 1540 FT110 TAG McLaren CD20R Theta Miles SE [[i]10 2 390 Tube Tech Fusion Tube Tech Fulctum XTC CDP-1 1,095 YBA Integré a TO 10 YBA CD3a 1,850 2,950



11010

### CD TRANSPORTS

1010 699

1010

FT010 669

1010

649 1010

YBA CD2a

1010 - Electrical (coaxial) digital output. Many players also include an optical (Toslink) output.

| 1010 | 1,100   |
|------|---|
| 1010 | 4,995   |
| 1010 | 399   |
| 1010 | 3,295   |
| 1010 | 999   |
| 1010 | 1,100   |
| 1010 | 1,850   |
| 1010 | 1,999   |
| 1010 | 2,250   |
| 1010 | 1,795   |
| 1010 | 775   |
| 1010 | 1,999   |
| 1010 | 9,190   |
| 1010 | 1,850   |
| 1010 | 3,995   |
| 1010 | 9,295   |
| 1010 | 3,995   |
| 1010 | 950   |
|      |   |
|      | 1010<br>1010<br>1010<br>1010<br>1010<br>1010<br>1010<br>101 |

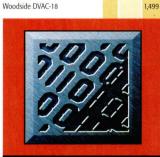
| Muse Model 5                | ED)10 | 1,800 |
|-----------------------------|-------|-------|
| Muse Model 8                | 1010  | 3,500 |
| Oracle CD Drive             | 1010  | 7,399 |
| Pink Triangle Cardinal II   | 1010  | 909   |
| Resolution VT960            | 1010  | 3,500 |
| Roksan Attessa-DP3          | 1010  | 1,295 |
| Sonic Frontiers Transport 3 | V     | 5,999 |
| T+A CM1200R                 | 1010  | 875   |
| TAG McLaren CDT20R          | 1010  | 1,499 |
| Teac VRDS-T1                | 1010  | 550   |
| Teac P-30                   | 1010  | 2,500 |
| Theta Pearl                 | 1010  | 1,349 |
| Theta Jade                  | 1010  | 2,650 |
| Thorens TCD-2000            | 1010  | 999   |
| Trichord Digital Turntable  | 1010  | 719   |
| Wadia 8                     | 1010  | 3,195 |
| Wadia 20                    | 1010  | 4,370 |
|                             |       |       |



# DIGITAL TO ANALOGUE CONVERTERS (DACS)

| ľ | K | E | ۲ | 1 |
|---|---|---|---|---|
| ı |   | ٠ | ľ |   |

| 4 – Number of digital                       | inputs. |                |
|---|---------|----------------|
| Alchemist TS-D-1                            |         | 300            |
| Alchemist Forseti DAC                       | 0       | 1,100          |
| Altis Reference                             | •       | 4,995          |
| Audio Note DAC Zero                         |         | 369            |
| Audio Note DAC1                             |         | 675            |
| Audio Note DAC2<br>Audio Note DAC3          |         | 1,099          |
| Audio Research DAC5                         | 0       | 2,335          |
| Audio Research DAC3 MkII                    | Ö       | 3,999          |
| Audio Synthesis DAX Decade 、                | 0       | 2,795          |
| Audiomeca Elixir                            | 0       | 799            |
| Audiomeca Ambrosia<br>Boulder 2020          | _       | 1,850          |
| Chord DSC900                                | 0       | 1,850          |
| Chord DSC1100                               | 0       | 2,765          |
| Chord DSC1500                               | 6       | 4,800          |
| Conrad-Johnson D/A-3                        | 0       | 1,195          |
| Conrad-Johnson D/A-2b                       |         | 1,990          |
| dCS Elgar<br>DPA Little Bit 3               | 0       | 8,500<br>325   |
| DPA Entile Bit 3  DPA Renaissance DAC       | 0       | 595            |
| DPA Enlightenment DAC                       |         | 850            |
| DPA SX128                                   |         | 2,000          |
| DPA SX256                                   |         | 4,000          |
| DPA SX512                                   |         | 8,000          |
| Harmonix Reimyo DAP-77<br>Jadis JS2         |         | 2,790<br>2,499 |
| Jadis JS1                                   | 0       | 6,990          |
| LFD DAC2                                    |         | 1,950          |
| LFD DAC3                                    |         | 3,000          |
| Linn Numerik                                |         | 1,500          |
| Madrigal 360<br>Madrigal 360S               | 0       | 4,395<br>6,895 |
| Madrigal 30.6                               | 0       | 16,495         |
| Meracus Auriga                              |         | 1,295          |
| Meracus Flagrare                            |         | 2,495          |
| Meridian 566                                |         | 1,095          |
| Monrio 18B2<br>Muse Model 2                 | 0       | 795<br>2,190   |
| Muse Model 2 Plus                           | 0       | 2,500          |
| Muse Model 2/96                             | 0       | 3,000          |
| Musical Fidelity X-ACT                      |         | 200            |
| Musical Fidelity X-24K                      |         | 300            |
| Musical Fidelity X-DAC<br>Onkyo DX 7310     |         | 300<br>330     |
| Resolution D92                              | 0       | 1,500          |
| Roksan Attessa-DA2                          | 0       | 595            |
| Sonic Frontiers Processor 3                 | •       | 5,999          |
| Sumo Theorem II                             |         | 945            |
| Sumo Theorem IIB                            | _       | 1,155          |
| TAG McLaren DAC20<br>Teac D-T1              | 0       | 1,249          |
| Theta Chroma 396 Std                        |         | 799            |
| Theta Pro Geny                              |         | 1,099          |
| Theta Pro Prime IIa                         |         | 1,699          |
| Theta Pro Basic Illa<br>Theta Casablanca LS |         | 2,990          |
| Thorens TDA-2000                            | 6       | 6,158          |
| Trichord Pulsar Ser One                     | ಿ       | 1,395          |
| Wadia 12                                    |         | 1,530          |
| Wadia 15                                    |         | 3,790          |
| Wadia 64.4                                  |         | 4,750          |
| Wadia 16<br>Wadia 7                         |         | 7,395<br>9,995 |
|   |         | ودداد          |



#### **DIGITAL RECORDERS**

MD - MiniDisc **DAT** – Digital Audio Tape

| olo – Portable                  |         |      |
|---------------------------------|---------|------|
| Denon DMD-1000 MD               |         | 30   |
| Kenwood DMF-9020                |         | 49   |
| Kenwood DM-7090 MD              |         | 50   |
| Kenwood DM-9090                 |         | 55   |
| Marantz CM635                   |         | 50   |
| Marantz DR700                   |         | 60   |
| Onkyo MD-121                    |         | 45   |
| Onkyo MD 122 MD                 |         | 70   |
| Philips CDR770                  |         |      |
| Philips CDR775                  |         |      |
| Philips CDR570                  |         |      |
| Philips CDR951                  |         |      |
| Pioneer MJ-D707                 |         | 19   |
| Pioneer PDR-555RW               |         | 48   |
| Pioneer PDR-04                  | Mary 1  | 70   |
| Pioneer D-05                    |         | 90   |
| Pioneer PDR-05                  | NE yill | 1,00 |
| Pioneer D-C88                   |         | 2,00 |
| Sharp MD-R1 Mkll                |         | 18   |
| Sharp MD-R3H                    |         | 30   |
| Sharp MD-R2                     |         | 30   |
| Sharp MD-MS200H                 | -       | 35   |
| Sharp MDXV300H                  |         | 1,00 |
| Sony MZ-R55                     |         |      |
| Sony MDS-S40                    |         |      |
| Sony MZ-R37 Sony MZ-R5ST MD     |         |      |
|                                 |         | 20   |
| ,                               |         | 30   |
|                                 |         | 50   |
|                                 |         | 65   |
|                                 |         | 30   |
| Teac MDH300 MD Teac MD-H500i MD |         | 35   |
| Teac MD-8                       |         | 60   |
| T 110 s                         |         | 60   |
| Teac MD-10 MD                   |         | 90   |
| Traxdata Traxaudio 900          | 1       | 39   |
| Yamaha MDX-595 MD               |         | 230  |
| Yamaha CDR-S1000                | 1000    | 400  |
| Tallialia CDIC-21000            |         | 40   |



### **HEADPHONES**

'D' – Dynamic type, compatible with virtually all normal headphone outputs.  ${}^{\prime}\!E^{\prime}$  – Electrostatic type; generally includes a separate power supply. - Open-back construction. - Closed-back construction.

12,790

|                      |   | _        | alest and |
|----------------------|---|----------|-----------|
| AKG Rox              | D | IAI      | 30        |
| Aural Envelope DX200 | D | <b>A</b> | 20        |
| Aural Envelope DX220 | D |          | 30        |
| Beyer DT111          | D | 40       | 15        |
| Beyer DT211          | D | 40       | 31        |
| Beyer DT211TV        | D | 40       | 35        |
| Hama SL273           | D | IAI      | 20        |
| Hama SL275           | D | 101      | 25        |
| JVC HA-CD88          | D | 40       | 18        |
| JVC HA-D525          | D | 101      | 20        |
| JVC HA-F65           | D | 101      | 20        |
| JVC HA-D626          | D | 101      | 25        |
| Kenwood KPM-310      | D |          | 18        |
|                      |   |          |           |

Kenwood KPM-410 Maxell HP-2000 Pioneer SE-A40 Pioneer SE-A20V 0000000000000 Pioneer SF-M250 Pioneer SE-M350 Sennheiser HD56 Sennheiser HD433 Sennheiser HD400 Sennheiser HD470 Sennheiser HD60TV Sony MDR-250V Sony MDR-A34L Sony MDR-FD228I P 99999999 Sony MDR-G52LP Sony MDR-E848LP/MP DDDDDDDD Sony MDR-ED238ML Sony MDR-G56V Sony MDR-G62LP Sony MDR-G59G Sony MDR-G72LP Sony MDR-V300 10 Sony MDR-IF130K Sony MDR-FX70I P D D D D Sony MDR-ED268LP Stanton ST Pro Technics RP-HT355 Technics RP-F200 D D D Technics RP-F400 Technics RP-HT550 Technics RP-F500 D Vivanco SR200 Vivanco SR150 Vivanco SR250 Vivanco IR5700 D OVER £41

AKG K301 AKG K240DF AKG K222IR 120 150 150 AKG K401 AKG K501 AKG K333IR 999 180 250 AKG K444IR AKG K290S Audio Technica ATH910PRO Audio Technica ATHD40FS Audio Technica ATH-M40 40 Audio Technica ATH911 D 120 Beyer DT311 Beyer DT411 Beyer DT331 Beyer DT431 Bever DT801 125 D 0 \* 145 Rever DT811 D \* 160 Rever DT901 D Denon AH-D210 ٥ Denon AH-D350 Denon AH-D650 D 0 D Denon AH-D950 150 Grado SR40 Grado SR60 Grado SR80 Grado SR125 300 Grado SR325 D 495 695 Grado RS2 DDDD Grado RS1 Hama SL276 Hama IR Cordless Jecklin Float Model 1 Jecklin Float Model 2 Jecklin Float ELS JVC HA-D727 D JVC HA-D50 JVC HA-W60 JVC HA-D910 JVC HA-W200RF IVC HA-DX1 200 D JVC HA-DX3 250 250 JVC HA-D1000 JVC HA-F25 699 Koss TD/80 Koss R/100 Philips SBC 3396 Philips SBC HP9000 Pioneer SE-M550 DDD 60 Pioneer SF-M750 10 Precide Ergo Model 1 120 4 Sennheiser HD200 D Sennheiser IS 380 \*\* Sennheiser HD490 D Sennheiser HD495 60

Sennheiser HD500 Sennheiser RS400 Sennheiser HD270

Sennheiser HD25 SP

Sennheiser HD570 Symphony 20 23 Sennheiser IS450 Sennheiser HD265 Linear 25 30 Sennheiser HDC 451-1 Sennheiser HD250II 18 Sennheiser HD590 20 Sennheiser HD565 Ovat'n 25 35 Sennheiser HD25-13 DDDDD Sennheiser HD25 Sennheiser HD 580 P'cision 40 18 18 Sennheiser HD600 Sennheiser IS850 18 Sennheiser HF60/HFV70 40 Sennheiser Orpheus Sony MDR-V500DJ 20 20 22 25 25 30 Sony MDR-RF830RK Sony MDR-D77 Sony MDR-F1 Sony MDR-CD1700 Sony MDR-DS5000 30 30 35 35 Stanton DJ Pro 101/HB Stanton DI Pro 1000 Stanton DJ Pro 1001 25 20 Stay SR-0001 Stax SR-Lambda Nova C 25 30 Stax SR-Lambda Nova S Stax Omega Technics RP-F800 35 40 20 Technics RP-HC100 Technics RP-D11200 20 30 Vivanco FMH 3000 Vivanco SR850 D Vivanco SR950 \* Vivanco SR2000IFI

110

130 150

150

160 160

200 250

,652

60

130

400

65 95 150

280 370

450

,896 50 55

50



# EQUIPMENT SUPPORTS Hi-Fi Tables

45

95

50 60

43

50

50

Elemental Reference IS

#### 4 - Number of shelves

| Trumber of shelves         |   |       |
|----------------------------|---|-------|
| Aavik Furniture A4         | 4 | 35    |
| Alphason SM17              | 1 | 40    |
| Alphason VSM17             | 1 | 85    |
| Alphason GSM 17            | 1 | 85    |
| Alphason GMV1P             | 1 | 110   |
| Alphason R17/17            | 3 | 120   |
| Alphason GMH1P             | 1 | 150   |
| Alphason VR17/17           | 3 | 190   |
| Alphason GR17/17-AS        | 4 | 27    |
| Apollo Soprano             | 4 | 27    |
| Arcici Air Head 1          | 1 | 275   |
| Arcici Air Head TNT        | 1 | 725   |
| Arcici Suspense 5          | 5 | 1,895 |
| Atacama Europa             | 4 | 24    |
| Audiophile Base 01         | 1 | 79    |
| Audiophile S4T120          | 4 | 280   |
| Audiophile S4T120P         | 4 | 560   |
| Audiophile Fumiture Base   | 4 | 61    |
| Avid Isoschelf             | 5 | 1,100 |
| BCD Model 1006/8           | 1 | 79    |
| BCD Model 1000             | 3 | 1,250 |
| Custom Design Aspect 650   | 4 | 250   |
| Custom Design Aspect 850   | 5 | 280   |
| Custom Design e'lite E5    | 5 | 280   |
| Custom Design Aspect 500AV | 3 | 290   |
| Custom Design e'lite XE5   | 5 | 300   |
| Custom Design e'lite AVE   | 8 | 350   |
| Deadrock 701               | 1 | 60    |
| Deadrock 802               | 2 | 90    |
| Deadrock 703               | 3 | 130   |
| Deadrock 705               | 5 | 230   |
| Deadrock 704               | 4 | 250   |
| Elemental Isotube X1       | 1 | 169   |
| Elemental Isotube BS       | 1 | 199   |
| Elemental Isotube TS       | 1 | 209   |
| Elemental Isotube IS       | 1 | 209   |
| Elemental Reference B1     | 1 | 329   |
| Elemental Isotube X2       | 2 | 379   |
| Elemental Isotube X3       | 3 | 489   |
| Elemental Reference BS     | 1 | 499   |
| Elemental Reference X1     | 1 | 499   |
| Elemental Reference TS     | 1 | 549   |

Wadia 9

| Elemental Reference X2 Elemental Isotube X4            | 2 4    | 799<br>849 |
|--|--------|------------|
| Elemental Isotube X4/Ref                               | 4      | 1,199      |
| Elemental Reference X3<br>Elemental Isotube X4Rse      | 3 4    | 1,199      |
| Elemental Reference X4                                 | 4      | 1,599      |
| Fi-Rax R4 Finite Elemente A03 pagode                   | 6      | 399<br>479 |
| Finite Elemente E03 pagode                             | 4      | 649        |
| Finite Elemente HD03<br>Frameworks H175                | 4      | 1,995      |
| Frameworks FS1   | 1      | 150        |
| Frameworks H500<br>Frameworks FT2                      | 3 2    | 265<br>285 |
| Frameworks FT3   | 3      | 350        |
| Frameworks H700<br>Frameworks H900                     | 3      | 355<br>389 |
| Impulse Iso-plate                                      | 3      | 190        |
| JPW 3 Tier<br>JPW 5 Tier                               | 3      | 80<br>100  |
| Linn K3000   | 5      | 85         |
| Mana Sound Frame<br>Mana Mini Table                    |        | 125<br>150 |
| Mana Power supply table                                |        | 150        |
| Mana Reference flat top<br>Mana Sound Shelf            |        | 150<br>175 |
| Mana Sound Stage                                       |        | 200        |
| Mana Sound Table<br>Mana Ref Shelf                     |        | 235        |
| Mana Reference Table                                   |        | 325<br>350 |
| Mana 2 Tier Stand                                      |        | 375        |
| Mana 3 Tier Stand<br>Mana 4 Tier Stand                 |        | 450<br>500 |
| Mana 5 Tier Stand                                      |        | 600        |
| Mana 6 Tier Stand<br>Mana 7 Tier Stand                 | 7      | 700<br>800 |
| Mana 8 Tier Stand                                      | 8      | 900        |
| Mission Stance<br>Optimum G4/Pedestal                  | ·      | 100        |
| Optimum OPT 3406                                       | 5      | 149        |
| Optimum G5/Pedestal<br>Optimum OPT 4906                | 6      | 150<br>199 |
| Optimum OPT 3000                                       | 4 3    | 200        |
| Optimum OPT 6606<br>Optimum OPT 340                    | 5      | 249        |
| Optimum OPT 5000                                       | 3<br>5 | 280        |
| Optimum OPT 490  | 4      | 299        |
| Optimum OPT 440<br>Optimum OPT 10206                   | 4      | 299<br>299 |
| Optimum AV 300   | 3      | 329        |
| Optimum OPT 700<br>Optimum OPT 610                     | 5      | 349<br>349 |
| Optimum OPT 660  | 4      | 349        |
| Optimum OPT 1020<br>Optimum OPT 8000                   | 6      | 399<br>400 |
| Optimum OPT 1190                                       | 7      | 450        |
| Projekt A3<br>Projekt A4                               | 3      | 145<br>215 |
| Projekt A5   | 5      | 235        |
| Projekt B3<br>Projekt A6                               | 6      | 255<br>280 |
| Projekt B3i  | 6      | 300        |
| Projekt B4<br>Projekt B Multi                          | 8      | 340<br>345 |
| Projekt B3ii   | 7      | 345        |
| Projekt C3<br>Projekt D3                               | 9      | 375<br>420 |
| Projekt C3i  | 8      | 420        |
| Projekt B5<br>Projekt C3iii                            | 10     | 425<br>465 |
| Projekt C3ii   | 11     | 465        |
| Projekt D3i<br>Projekt C4                              | 12     | 500<br>500 |
| Projekt C3iv   | 12     | 510        |
| Projekt D3ii   | 14     | 545        |
| Projekt C Multi<br>Projekt D4                          | 9      | 555<br>560 |
| Quadraspire Q4S mini shelf                             | 1      | 65         |
| Quadraspire Q4S shelf<br>Quadraspire QKS Cabinet shelf | 1      | 65<br>80   |
| Quadraspire QAV shelf                                  | i      | 130        |
| Quadraspire Q4M mini table<br>Quadraspire Q4 table     | 4      | 250<br>250 |
| Quadraspire Q4SP Table                                 | 4      | 320        |
| Quadraspire QAV table<br>Quadraspire QAVSP Table       | 3      | 350<br>400 |
| Quadraspire QK Cabinet                                 | 4      | 450        |
| Reson DOMOPS<br>Reson DOMOWS                           | 1      | 195<br>195 |
| Solid Steel Model B                                    | 1      | 141        |
| Solid Steel Model A<br>Solid Steel Series 3            | 1      | 152<br>220 |
| Solid Steel Series 5                                   | 4      | 310        |
| Solid Steel H.3<br>Solid Steel H.5                     | 5      | 372<br>517 |
| Sound Org Z022   | 5      | 65         |
| Sound Org Z021<br>Sound Org Z030                       | 2      | 78         |
| Sound Org Z060   | 3 4    | 100        |
| Sound Org Z038   | 5      | 135<br>140 |
| Sound Org Z540<br>Sound Org Z560                       | 4 5    | 160        |
| Sound Org Z545<br>Sound Org Z530                       | 4      | 160<br>170 |
| Soundstyle X300  | 3      | 180        |
| Soundstyle X305<br>Soundstyle X053                     | 3 4    | 210<br>210 |
|  |        |            |

| Soundstyle X050                  | 4  | 210   |
|----------------------------------|----|-------|
| Soundstyle X6300                 | 3  | 215   |
| Soundstyle X100                  | 4  | 230   |
| Soundstyle X6110                 | 4  | 230   |
| Soundstyle X058                  | 5  | 240   |
| Soundstyle X310                  | 3  | 250   |
| Soundstyle X105                  | 5  | 250   |
| Soundstyle X6053                 | 4  | 255   |
| Soundstyle X6100                 | 4  | 265   |
| Soundstyle X6310                 | 3  | 275   |
| Soundstyle Radius SR100          | 4  | 280   |
| Soundstyle X6058                 | 5  | 290   |
| Soundstyle X6105                 | 5  | 300   |
| Soundstyle Finewoods W105        | 5  | 320   |
| Standesign Design 4              | 4  | 190   |
| Stands Unique Isolation Platform | 1  | 55    |
| Stands Unique Sound Support      | 4  | 260   |
| Stands Unique Sound Tower        | 5  | 299   |
| Stands Unique Compact Sound Sup  | P4 | 329   |
| Stands Unique Sound Support 10   | 4  | 329   |
| Stands Unique Sound Twr Cabinet  | 5  | 389   |
| Stands Unique Ref Wall Support   | 1  | 560   |
| Stands Unique Ultimate Tower     | 10 | 720   |
| Stands Unique Ref Floor Support  | 6  | 840   |
| Target B5                        | 5  | 175   |
| Townshend Seismic Sink 1-CD      |    | 110   |
| Townshend Seismic Sink 1-3D      |    | 400   |
| Townshend S/Sink Stand 1-4       | 4  | 999   |
| Townshend Seismic Sink Stand     | 4  | 1,245 |
| Vibraplane Passive               | 1  | 1,895 |
| Vibraplane Active                | 1  | 3,600 |
| Wilson benesch Standard Shelf    | 1  | 130   |
| Wilson benesch Mono Block        | 1  | 265   |
| Wilson benesch Kevlar Shelf      | 1  | 270   |
| Wilson benesch Asside Basic      | 4  | 590   |
| Wilson benesch Asside            | 4  | 720   |
| Wilson benesch Triptych          | 1  | 990   |
|                                  |    |       |
| parameter substitution           |    |       |



#### **EQUIPMENT SUPPORTS Speaker Stands**

60 – Height of stand in cm.

| Acoustic Solutions Platform Eight |     |  |
|-----------------------------------|-----|--|
| Aliante Base                      |     |  |
| Aliante Vela                      |     |  |
| Alphason NCI                      | 60  |  |
| Alphason Akros I                  | 60  |  |
| Alphason RS1                      | 120 |  |
| Alphason NCII                     | 60  |  |
| Alphason HDS                      | 60  |  |
| Alphason Titan S                  | 60  |  |
| Apollo Olympus                    | 60  |  |
| Apollo AZ6                        | 66  |  |
| Atacama BD21                      | 56  |  |
| Atacama BD17                      |     |  |
| Atacama BD25                      |     |  |
| Atacama SE16                      |     |  |
| Atacama SE12                      |     |  |
| Atacama SX500                     |     |  |
| Atacama F2                        |     |  |
| Atacama F1                        |     |  |
| Atacama SX600                     |     |  |
| Atacama SL200                     |     |  |
| Atacama SE24                      | 61  |  |
| Atacama SE20<br>Atacama SX700     |     |  |
| Atacama SL300                     |     |  |
| Atacama TP600                     |     |  |
| Atacama TP500                     |     |  |
| Atacama SE615                     |     |  |
| Atacama SE515                     |     |  |
| Atacama SE415                     |     |  |
| Atacama SL400                     |     |  |
| Atacama SE1000S                   |     |  |
| Atacama R724                      | 60  |  |
| AVF Tower P6144BP                 | 60  |  |
| BCD Model 1010                    | 60  |  |
| Black Box Speaker Stand           | 100 |  |
| Credo STD 001                     | 100 |  |
| Custom Design R/S 300             | 60  |  |
| Custom Design M Range             | 56  |  |
| Custom Design Ref. stands         | 60  |  |
| Deadrock 903                      | 60  |  |
| Deadrock 902                      | 47  |  |
| Deadrock 901                      | 39  |  |
| Elemental Reference SB1           | 8   |  |
| Elemental Isotube SZ              | 49  |  |
| Elemental Isotube SZse            | 61  |  |
| Elemental Isotube SCZ             | 49  |  |

|                                  |    | VALUE OF THE |
|----------------------------------|----|--------------|
| Elemental Isotube SCZse          | 49 | 799          |
| Elemental Reference SZ           | 52 | 999          |
| Elemental Reference SCZ          | 52 | 1,499        |
| Harbeth HL-Stands                | 21 | 249          |
| Heybrook Stand-S6                | 63 | 69           |
| JPW MS2                          | 45 | 45           |
| JPW MS3                          | 61 | 55           |
| JPW MS1                          | 46 | 80           |
| JPW HS1                          | 61 | 120          |
| JPW HS2                          | 45 | 120          |
| Mana Sound Base                  |    | 175          |
| Opera WS1/E                      | 60 | 235          |
| Opera S1                         | 60 | 295          |
| Opera S2                         | 60 | 345          |
| Partington A-4                   | 60 | 119          |
| Pioneer CP-7                     |    | 50           |
| Pioneer CP-8                     |    | 80           |
| Projekt Signature                | 55 | 80           |
| Royd Royd                        | 55 | 99           |
| Russ Andrews Torlyte             | 61 | 599          |
| Silverado Silverado 1 Stand      | 60 | 350          |
| Solid Steel SL                   | 63 | 186          |
| Solid Steel SS                   | 63 | 333          |
| Solid Steel SS801                | 25 | 366          |
| Sonus Faber Ironwood             |    | 475          |
| Sonus Faber Stonewood            |    | 497          |
| Sound Org Z037                   |    | 55           |
| Sound Org Z027                   |    | 55           |
| Sound Org Z026                   |    | 55           |
| Sound Org Z518                   | 45 | 65           |
| Sound Org Z524                   | 61 | 69           |
| Soundstyle X6118                 | 42 | 100          |
| Stands Unique Speaker support    | 59 | 165          |
| Stands Unique Tuned Spkr Support | 59 | 230          |
| Stands Unique Tuned Carbon Fibre | 59 | 299          |
| Stands Unique Vivas CF Spkr Supp | 60 | 349          |
| Target TR60                      | 60 | 68           |
| Target R1                        | 53 | 280          |
|                                  |    |              |



## LOUDSPEAKERS

425

750

49 49

595

284

85

200

60 60

499

699

requiring no separate stand. ■ – Stand mount; smaller models designed to be raised above the floor. **≱** - Wall mount; designed to be sited on or near the wall. - Box type, including infinite

baffle, reflex and transmission line types. □ - Horn type; mostly large and very efficient.

☐ - Panel type, including electrostatic and planar magnetic types.

JPW ML310i 130 JPW ML410i 00000 JVC SX-SC1VBK JVC SP-V50 80 100 JVC SP-X220TBK JVC SP-X550BK 130 Kenwood LS-90UK 130 NAD 801 西田田田刊 000000 100 Paradigm Micro v2 Paradigm Atom v2 100 120 120 Pioneer CS-3030 Polk AB410 Realistic Minimus 26 日日日日 Realistic Minimus Pro-77 100 100 60 Sony SS-86E 0 Tangent Monitor 3 TDL Nucleus 1 . 75 Teac I S-X8 Mk II 80 000000 Technics SB-CS65 100 田田田田田田 W'dale Valdus 100 80 100 W'dale Diamond 7.1 W'dale Valdus 200 110 W'dale Modus Micro

#### £131 TO £200 Acoustic Energy Aegis Centre Acoustic Energy AE100i Allison Model 4A B&W DM302 Ser II B&W DM601 Ser II Bose 201 IV Boston CR6 Boston 325 Boston Micro 80 Sat Roston Runahout Boston 335 Boston 351 Boston CR7 Boston Runabout II Celestion 15i Genexxa GX650 GLL Imagio IC218 GLL Imagio IC318 Heybrook HB1/2000 Heybrook HB2/2000 Interaudio XL2000 Jamo Cornet 165 Jamo 38 Jamo 560 Jamo 660 Jamo Studio 180 Jamo D165 Jamo 68 Jamo 892 IBI CM52 JBL MX1000 JBI 1X20 JBL MX1500 JM Lab Tantal 505 IPW MI 610i KEF Cresta 2 KEF Model 60S Kenwood LS-200G Magnat Vector 22 Mission 701 Mission 771e Mission 702e

| SHE DESCRIPTION OF THE PROPERTY OF THE PROPERT | 1        | 0 | 200 | TLC Voyager 350<br>W'dale Modus Music Four | 豆          | 0 | 289<br>230 | Magnat Vector 77<br>Mission 751f  | 中                    |
|--|----------|---|-----|--|------------|---|------------|---|----------------------|
| E201 TO E300   |          |   |     | W'dale Valdus 500<br>Yamaha NS-200         | 业          | 0 | 300<br>300 | Mission 773e<br>Mission 704   | ±                    |
| Arcaydis Baby 1  | 2        | 0 | 299 | ZYP A1                                     | R          | 0 | 229        | Mission 774   | ±                    |
| Audio Gem Opal   | <u>=</u> | 0 | 230 | ZYP A2S                                    | 0          | 0 | 299        | Mission 705   | +                    |
| B&W DM602 Ser II   | -        | 0 | 300 | 211 725                                    | =          | _ | 233        | M-A Monitor 3   | ±                    |
| Blueroom Minipod   | <u>B</u> | 0 | 250 | £301 TO £500                               |            |   | ALC: SOLD  | M-A Silver 5  | ±                    |
| Bose 151   | <u></u>  | 0 | 220 | E301 10 E300                               |            |   |            | M-A Studio 2SE  | B                    |
| Bose 301 IV  | =        |   | 300 | Acoustic Energy AE105SE                    |            | 0 | 350        | M-A Monitor 4   | ±                    |
| Boston 361   | 9        | 0 | 219 | Acoustic Energy AE1033E                    | <u> </u>   |   | 350        | M-A 700 PMC   | B                    |
| Boston CR8   | <b>±</b> | 0 | 239 | Acoustic Energy Aegis Three                | 事          | 0 | 350        | Mordaunt-Short MS207  | 9                    |
| Boston 381   | <u>n</u> |   | 259 | Acoustic Energy AE(120                     | 和          |   | 500        | Mordaunt-Short MS208  | 9                    |
| Boston CR9   | ¥        | 0 | 279 | Allison Model 2A                           | 31         | 0 | 420        | Mordaunt-Short MS817  | 9                    |
|  | 모        | 0 |     |  | Ξ.         |   |            | Mus Tec Harrier   |                      |
| Boston Voyager   | 모        | 0 | 299 | Arcaydis Baby 2                            | Ŧ          | 0 | 399        |   | ±                    |
| Celestion C1   | ₽.       | 0 | 299 | Arcaydis ASC                               | <u>n</u>   | 0 | 399        | Mus Tec PM15<br>NAD 804   |                      |
| Celestion 23i  | 和        | 0 | 299 | Arcaydis AK1<br>Audiovector C1             | #          | 0 | 449        |   | +                    |
| Cerwin-Vega VS-8   | 모        | 0 | 250 |  | <u>n</u>   | 0 | 399        | Neat Critique   | 2                    |
| Cerwin-Vega CT-330   | Ŧ        | 0 | 300 | AVI Neutron                                | =          | 0 | 499        | Opera Duetto  | 0                    |
| Chario Syntar 100  | 2        | 0 | 249 | AVI NuNeutron                              | <u>a</u>   | 0 | 500        | Opera Prima   | =                    |
| Chario Ref 100   | 9        | 0 | 299 | B&O Beovox CX50                            | 9          | 0 | 325        | Origin Live OL-1AS  | =                    |
| Chario Hiper 1000  | <u> </u> | 0 | 300 | B&O Beovox CX100                           | <u> </u>   | 0 | 425        | Origin Live Monarch   | 0                    |
| Dali 102B  | <u> </u> | 0 | 260 | B&W DM305                                  | 丑          | 0 | 350        | Paradigm Studio/20  | 9                    |
| Dali 150   |          | 0 | 300 | B&W CDM2SE                                 | 五          | 0 | 400        | Paradigm Monitor 9  | ±                    |
| Eltax Linear Response  | 9        | 0 | 249 | Bandor Pictures                            | *          | 0 | 352        | Pioneer S-LC2   | ±                    |
| GLL Imagio IC238TL   | #1       | 0 | 250 | Boston Micro 90 Sat                        | 0          | 0 | 369        | Polk AB705  | *                    |
| Heybrook Optima  |          | 0 | 259 | Boston Micro 80 Sys                        | Ŧ          | 0 | 369        | Polk RT8  | ±                    |
| Heybrook Heylios   | 哥        | 0 | 269 | Boston VR20                                | Ŧ          | 0 | 380        | Polk RT10   | ±                    |
| Heybrook HB3/2000  | Ŧ        | 0 | 300 | Castle Inversion 15                        | 9          | 0 | 425        | Polk AB805  | ±                    |
| nteraudio XL3000   |          | ō | 230 | Celestion 25i                              | 业          | 0 | 399        | Prof Monitor Co TB1S  | 8                    |
| nteraudio XL4000   | 모모       | 0 | 260 | Celestion 30i                              | Ŧ          | 0 | 449        | Promenade SP2   |                      |
| amo Cornet 175   | Ŧ        | 0 | 230 | Celestion 35i                              | Ŧ          | 0 | 499        | Promenade SP3   | ±                    |
| amo Classic 4  | H        | 0 | 250 | Cerwin-Vega VS-10                          | 五          | 0 | 350        | Rega Alya   | ±                    |
| amo Art  | ± ±      | 0 | 300 | Chario Syntar 100T                         | 五          | 0 | 399        | Rega Jura   | Ŧ                    |
| amo D265   | Ŧ        | 0 | 300 | Chario Ref 1000                            |            | 0 | 499        | Rega ELA  | ±                    |
| BL CM62  |          |   | 250 | Dali 104B                                  | <u>=</u>   |   |            | Royd The Squire   | ±                    |
|  | 모        | 0 |     | Dali Royal Menuet MkII                     | 和          | 0 | 370        |   |                      |
| M Lab Tantal 507   | <u>=</u> | 0 | 299 |  | <u> </u>   | 0 | 400        | Royd Minstrel SE  | ±                    |
| PW ML710i  | 业        | 0 | 250 | Dali 606                                   | 土          | 0 | 400        | Royd Doublet  | ±                    |
| IPW ML810i   | Ŧ        | 0 | 300 | Dali Royal                                 | Ŧ          | 0 | 500        | Ruark Icon  | 9                    |
| IVC SX-SW10  | <u> </u> | 0 | 300 | Def Tech Celsius                           | <u>=</u>   | 0 | 395        | Sequence 400  | *                    |
| KEF Coda 9   | 业        | 0 | 299 | Dynaudio Audience 40                       | 9          | 0 | 399        | Sony SS-X7  | ±                    |
| KEF Model 70S  | 9        | 0 | 299 | Epos ES12                                  |            | 0 | 499        | S Coast Odette  | 0                    |
| Linn Kan   | 9        | 0 | 295 | GLL Imagio IC248TL                         | ¥          | 0 | 350        | Spendor S3/5  | =                    |
| Mission 750  | 8        | 0 | 248 | GLL Imagio IC258TL                         | Ŧ          | 0 | 450        | System 1130   | +                    |
| Mission 772  | 모        | 0 | 250 | GLL Imagio IC348TL                         | Ŧ          | 0 | 500        | Tannoy Revolution R2  | +                    |
| Mission 703  | ¥        | 0 | 300 | Heybrook Heylo                             | #1         | 0 | 359        | TDL G20   | +                    |
| M-A Monitor 2  | <u> </u> | 0 | 250 | Heybrook Ultima                            | <b>±</b>   | 0 | 399        | TDL Chiltern CF100  | =                    |
| M-A Silver 3   | <u></u>  | 0 | 300 | Heybrook HB4/2000                          | ¥          | 0 | 500        | TDL G30   | ¥                    |
| Mus Tec Kestrel SE   | 並        | 0 | 300 | Jamo Classic 6                             | Ŧ          | 0 | 330        | Technics SB-M300  | 9                    |
| NAD 802  | <u> </u> | 0 | 280 | Jamo Cornet 195                            | #          | 0 | 350        | Technics SB-M500  | ±                    |
| Paradigm Monitor 5   | Ŧ        | ō | 250 | Jamo BX-100A                               | Ŧ          | 0 | 350        | TLC Altus 300   | +                    |
| Paradigm Monitor 7   | -        | ō | 300 | Jamo 98                                    | 五          | 0 | 350        | Triangle Cometes  | B                    |
| Pioneer CS-7030  | 모모       | 0 | 230 | Jamo D365                                  |            |   | 400        | W'dale Modus Music Six  | ±                    |
| Pioneer CS-9030  | *        |   | 280 | Jamo Classic 8                             | 和          | 0 | 400        |   |                      |
| Pioneer CS-9030<br>Pioneer S-LC1   | Ŧ        | 0 | 300 | Jamo Classic 8<br>Jamo Graphic             | 和          | 0 | 400        | W'dale Modus Music Eight<br>W'dale Modus Music 1/6  | ±                    |
|  | <u>-</u> | 0 |     |  | <u> </u>   | 0 |            |   | ±                    |
| Polk AB505   | *        | 0 | 220 | Jamo 128                                   | #1         | 0 | 450        | Yamaha NS-300   | ±                    |
| Polk M3 II   | *        | 0 | 220 | Jamo BX-150A                               | #          | 0 | 450        |   |                      |
| Polk RT5   | *        | 0 | 250 | Jamo Atmosphere                            | *          | 0 | 500        | £501 TO £800  |                      |
| Polk RT7   | <b>B</b> | 0 | 300 | JBL LX60                                   | 土          | 0 | 350        | Acoustic Energy AE505   | ±                    |
| Polk M5  | <b>±</b> | 0 | 300 | JBL Ti 200                                 | <u>B</u>   | 0 | 400        | Acoustic Precision Eikos FR1  |                      |
| Promenade SP1  | <u>B</u> | 0 | 299 | JM Lab Tantal 515                          | 土          | 0 | 499        | Aliante Stile   | 9                    |
| Rega Aria  | 2        | 0 | 250 | Jordan Watts JHFLG                         | <u> </u>   | 0 | 380        | Aliante Voce  | 0 0                  |
| Royd The Envoy   | 2        | 0 | 249 | Jordan Watts JH200                         | 9          | 0 | 420        | Allison Model 3A  | 0                    |
| Royd Minstrel  | 业        | 0 | 275 | JPW ML910i                                 | 业          | 0 | 350        | Arcaydis AK3  | ¥                    |
| Ruark Epilogue   | R        | 0 | 239 | JPW ML1010i                                | #1         | 0 | 450        | Arcaydis AS2  | 2                    |
|  | ₹        | 0 | 249 | KEF Q35                                    | ¥          | 0 | 349        | Arcaydis AK4  | ±                    |
| equence 300  | Ŧ        | 0 | 250 | KEF Q55                                    | Ŧ          | 0 | 499        | Audio Gem Emerald   | +                    |
| Sequence 300<br>Sony SS-176EB  |          | 0 | 230 | KEF RDM One                                | H          | 0 | 499        | Audio Note AN-K/D   | 0                    |
| Sony SS-176EB  |          | 0 | 300 | Linn Sekrit                                |            | 0 | 395        | Audio Note AN-J/B   | 2                    |
| ony SS-176EB<br>annoy Mercury M3   | 和        |   | 200 |  | 中          |   | 349        | Audiovector M1  | <u>=</u>             |
| ony SS-176EB<br>Cannoy Mercury M3<br>DL Nucleus 4  | 土        |   | 200 | Magnat Voctor FF                           | -          | 0 | 349        |   |                      |
| Sony SS-176EB<br>Fannoy Mercury M3<br>IDL Nucleus 4  | 和        | 0 | 289 | Magnat Vector 55                           | 1          |   |            | Audienates Co   |                      |
| Sony SS-176EB<br>Fannoy Mercury M3<br>IDL Nucleus 4  | 土        |   | 289 | Magnat Vector 55                           |            |   |            | Audiovector C2  |                      |
| Sony SS-176EB<br>Fannoy Mercury M3<br>IDL Nucleus 4  | 土        |   | 289 | Magnat Vector 55                           | word.      |   |            | AVI Biggatron   |                      |
|  | 土        |   | 289 | Magnat Vector 55                           | -          |   |            | AVI Biggatron<br>B&O Beolab 2500  | 0                    |
| Sony SS-176EB<br>Fannoy Mercury M3<br>IDL Nucleus 4  | 土        |   | 289 | Magnat Vector 55                           |            |   |            | AVI Biggatron<br>B&O Beolab 2500<br>B&W 603 S2  | 모모                   |
| Sony SS-176EB<br>Fannoy Mercury M3<br>IDL Nucleus 4  | 土        |   | 289 | Magnat Vector 55                           | -          |   |            | AVI Biggatron<br>B&O Beolab 2500<br>B&W 603 S2<br>B&W CDM1 SE   | CH CH + CH           |
| Sony SS-176EB<br>Fannoy Mercury M3<br>IDL Nucleus 4  | 土        |   | 289 | Magnat Vector 55                           | -          |   |            | AVI Biggatron<br>B&O Beolab 2500<br>B&W 603 S2<br>B&W CDM1 SE<br>Bose 501                                   | 西本四年                 |
| Sony SS-176EB<br>Fannoy Mercury M3<br>IDL Nucleus 4  | 土        |   | 289 | Magnat Vector 55                           | L. Control |   |            | AVI Biggatron<br>B&O Beolab 2500<br>B&W 603 S2<br>B&W CDM1 SE<br>Bose 501<br>Bose A'mass AM3                |                      |
| Sony SS-176EB<br>Fannoy Mercury M3<br>IDL Nucleus 4  | 土        |   | 289 | Magnat Vector 55                           |            |   |            | AVI Biggatron B&O Beolab 2500 B&W 603 52 B&W CDM1 SE Bose 501 Bose A'mass AM3 Boston VR30                   | 4 10 10 10 4 10 10 4 |
| ony SS-176EB<br>Cannoy Mercury M3<br>DL Nucleus 4  | 土        |   | 289 | Magnat Vector 55                           |            |   |            | AVI Biggatron B&O Beolab 2500 B&W 603 52 B&W CDMI SE Bose 501 Bose A mass AM3 Boston VR30 Castle Severn 2SE |                      |
| Sony SS-176EB<br>Fannoy Mercury M3<br>IDL Nucleus 4  | 土        |   | 289 | Magnat Vector 55                           | 2          |   |            | AVI Biggatron B&O Beolab 2500 B&W 603 52 B&W CDM1 SE Bose 501 Bose A'mass AM3 Boston VR30                   | 土田                   |

| Mission 704 Mission 774 Mission 775 Mission 705 M-A Monitor 3 M-A Silver 5 M-A Studio 2SE M-A Monitor 3 M-A Silver 5 M-A Studio 2SE M-A Monitor 4 Mordaunt-Short MS207 Mordaunt-Short MS207 Mordaunt-Short MS208 Mordaunt-Short MS208 Mordaunt-Short MS208 Mordaunt-Short MS208 Mordaunt-Short MS209 Mordaunt-S | ╅╅┸┸┸┸<br>┸┸┸┸┸  | 450<br>500<br>500<br>500<br>500<br>500<br>400<br>500<br>400<br>500<br>400<br>4     |
|--|--|--|
| W'dale Modus Music 1/6 Yamaha NS-300  ESOI TO E800  Acoustic Energy AESOS Acoustic Energy AESOS Acoustic Precision Elkos FR1 Aliante Stile Aliante Stile Aliante Voce Allison Model 3A Arcaydis AK3 Arcaydis AK2 Arcaydis AK2 Arcaydis AK4 Audio Gem Emerald Audio Note AN-K/D Audio Note AN-K/D Audio Note AN-J/B Audiovector M1 Audiovector M2 Bose Sol Bose Sol Bose Affection Bose Bose Sol Bose Affection Bose Bose Sol Bose Affection AS Celestion A Compact Celestion C2 Cerwin-Vega VS-12 Cerwin-Vega VS-12 Cerwin-Vega VS-12 Cerwin-Vega VS-15 Chario Constellation Lynx Chario Ref 100T Chario Hiper 1000T Cura CA-10 Dali 107 Dali 350 Dali 109 Def Tech BPGB Diapason Micra II Dynaudio Audience 60 ELAC CL310i JET Epos ES14 Harbeth BBC LS3/SA Harbeth HL-P3ES Heybrook Duet Infinity Kappa 60 Infinity Kappa 70 Jamo BX-200A Jamo Classic 10 JBL LX80 JBL TI 400  | 生生生生的100mm生物100mm生生生生生生物生生性的100mm生的100mm生物100mm生物100mm生物100mm生物100mm生物100mm生物100mm生物100mm生物100mm生物100mm生物100mm | 500 400 500 400 500 600 525 599 699 599 590 600 600 600 655 600 600 600 600 600 60 |

| JBL SVA1500  | 2  | o                   | 650   |
|--|--|---------------------|---|
| JBL Ti 600   | Ŧ  | 0                   | 650   |
| JM Lab Cobalt 807<br>JM Lab Tantal 520   | 보  | 0                   | 599<br>599  |
| JM Lab Cobalt 810  | Ŧ  | 0                   | 799   |
| Jordan Watts JH400   | 2  | 0                   | 515   |
| KEF LS3/5a   | 9  | 0                   | 649   |
| KEF Q65  | 9  | 0                   | 699<br>799  |
| Kelly KT2  | 平平   | 0                   | 700   |
| Linn Tukan Passive   | 9  | 0                   | 550   |
| Linn Keilidh Passive   | 业  | 0                   | 750   |
| Magnat Vintage 710   | 9  | 0                   | 799<br>750  |
| Meridian A500<br>M&K S-85  | 哥  | 0                   | 700   |
| Mission 752f   | Ť  | 0                   | 578   |
| Mission 753f   | #  | 0                   | 798   |
| M-A Silver 7   | Ŧ  | 0                   | 600   |
| M-A 702PMC<br>M-A 703PMC   | 和  | 0                   | 800   |
| Mus Tec Falcon   | 취  | 0                   | 680   |
| Naim Intro   | 和  | 0                   | 680   |
| Neat Mystique 2  | 业  | 0                   | 575   |
| Neat Petite II   | 1  | 0                   | 745   |
| Opera Seconda<br>Opera Platea  | Ŧ<br>ō   | 0                   | 595<br>795  |
| Origin Live Resolution   | 5  | 0                   | 732   |
| Paradigm Studio/60   | Ŧ  | 0                   | 650   |
| Paradigm Studio/80   | 9  | 0                   | 750   |
| Polk RT12  | Ŧ  | 0                   | 600   |
| Polk RT16<br>Polk LS50   | 平  | 0                   | 799   |
| ProAc Tablette 2000  | 모  | 0                   | 649   |
| ProAc Studio 100   | 9  | 0                   | 749   |
| Prof Monitor Co TB1SM  | <u></u>  | 0                   | 517   |
| Prof Monitor Co TB1  | =  | 0                   | 529   |
| Prof Monitor Co TB1M<br>Prof Monitor Co XB1  | 0 0  | 0                   | 576   |
| Promenade SP4  | <b>∓</b>   | 0                   | 640<br>650  |
| Roksan ROKone 1  | 1  | 0                   | 595   |
| Roksan Ojan 3  | Ŧ  | 0                   | 795   |
| Royd The Sorcerer  | 2  | 0                   | 595   |
| Royd Abbot   | Ŧ  | 0                   | 695   |
| Ruark Templar II<br>Ruark Sceptre  | #  | 0                   | 559<br>599  |
| Ruark Talisman II  | Ŧ  | 0                   | 799   |
| Ruark Prologue One   | ¥  | 0                   | 799   |
| Shinpy Polarys   | 9  | 0                   | 595   |
| Silverado Raider   | 2  | 0                   | 695   |
| Snell K5<br>Soliloquy 5.0  | 9  | 0                   | 795<br>795  |
| Sonus Faber Concertino   | B  | 0                   | 599   |
| S Coast Hades  | ¥  | 0                   | 695   |
| S Coast Lancelot   |  |                     |   |
|  | 2  | 0                   | 795   |
| Spendor S1   | 9  | 0                   | 549   |
| Spendor S1<br>System 1150  | <u>+</u>   | 0                   | 549<br>750  |
| Spendor S1   | <b>∓</b>   | 0                   | 549   |
| Spendor S1<br>System 1150<br>T+A TB 100  | <u>+</u>   | 0                   | 549<br>750<br>700<br>689<br>650   |
| Spendor S1<br>System 1150<br>T+A TB 100<br>Tannoy Definition D100<br>TDL Cotswold CF200<br>Titan Logic T/2B  | 四十十四十四   | 0 0 0               | 549<br>750<br>700<br>689<br>650<br>600  |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2   | 四十十四十四四  | 0 0 0 0 0           | 549<br>750<br>700<br>689<br>650<br>600<br>699   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital   | 四十十四十四日日   | 0 0 0 0 0 0         | 549<br>750<br>700<br>689<br>650<br>600  |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1   | 四十十四十四四  | 0 0 0 0 0           | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790  |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Tital Logic T/2B Tital Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite  | 四十十四四四十十四四十十四  |                     | 750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599  |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk   | 四十十四四四十十四四   |                     | 750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Tital Logic T/2B Tital Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite  | 四十十四四四十十四四十十四  |                     | 750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599  |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  | 四十十四四四十十四四   |                     | 750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  | 四十十四四四十十四四   | 0 0 0 0 0 0 0 0 0 0 | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO £1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE50   | 在  |                     | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  | 10年七四日七年10日日午10日午10日   |                     | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO £1,500 Acoustic Energy AE509 Acoustic Energy AE504 Acoustic Energy AE2-II Acoustic Suchions Eight Aliante Moda  | 在  |                     | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2 Titan Logic T/2 Titan Logic T/2 Titan Coftal TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  ### 1500 ### | 生的的的生生 生物的生生的的生物性生物  |                     | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  ### 100 ### 11500 # | 在在1000世代 ——————————————————————————————————  |                     | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599<br>850<br>1,000<br>1,245<br>1,375<br>1,370<br>1,095<br>1,395  |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2B Titan Logic T/2 Titan Logic T/2 Titan Logic T/2 Titan Corbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO £1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE2-II Acoustic Sultions Eight Aliante Moda Apertura Prima Apertura Nova Arcaydis AC1  | 生长长的的口性长 化四四代化四四代四代化   |                     | 549<br>750<br>700<br>689<br>650<br>699<br>790<br>535<br>800<br>1,000<br>1,245<br>1,375<br>1,090<br>1,095  |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO £1.500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE51 Acoustic Energy AE51 Acoustic Energy AE509 Acoustic Energy AE500 Acoustic Energy AE500 Acoustic Energy AE500 Acoustic Energy AE501  | 10世代生生的自由生生 在100年代中国日本日本日  |                     | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599<br>850<br>1,000<br>1,245<br>1,375<br>1,370<br>1,095<br>1,395  |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO £1,500 Acoustic Energy AE509 Acoustic Energy AE500 Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Modd Apertura Prima Apertura Nova Arcaydis AKS ATC SCM10 Audio Note AN-J/D  | 的四世生生生的的四世生 <u>生物的生生的的多种生物的</u>  |                     | 549<br>750<br>700<br>689<br>650<br>699<br>790<br>535<br>800<br>599<br>765<br>599<br>1,000<br>1,245<br>1,375<br>1,095<br>1,095<br>1,099<br>1,395<br>1,099<br>930   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2 Titan Cobial TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE501 Acoustic Solutions Eight Aliante Moda Aliante Moda Apertura Nova Arcaydis AC1 Arcaydis AK5 ATC SCM10 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPx   | <b>□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□</b>  |                     | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599<br>1,000<br>1,245<br>1,375<br>1,200<br>1,395<br>1,099<br>1,399<br>1,000<br>930<br>1,060   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Cobital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  ### 100 ### 1 | <b>生的的的性性性性的的的性性</b>   |                     | 549<br>750<br>700<br>689<br>650<br>699<br>790<br>535<br>800<br>599<br>1,000<br>1,245<br>1,375<br>1,200<br>1,095<br>1,395<br>1,099<br>1,399<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,    |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2 Titan Cobial TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE501 Acoustic Solutions Eight Aliante Moda Aliante Moda Apertura Nova Arcaydis AC1 Arcaydis AK5 ATC SCM10 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPx   | <b>□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□</b>  |                     | 549<br>750<br>700<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599<br>1,000<br>1,245<br>1,375<br>1,200<br>1,395<br>1,099<br>1,399<br>1,000<br>930<br>1,060   |
| Spendor S1 System 1150 Ty4 TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Cobital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO £1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE540 Acoustic Energy AE550 Acoustic Energy AE540 Acoustic Energy AE540 Acoustic Energy AE570 Acoustic Energy AE57 | 10000101010101010101010101010101010101   |                     | 549<br>750<br>689<br>650<br>6699<br>790<br>535<br>599<br>765<br>599<br>765<br>599<br>1,245<br>1,375<br>1,200<br>1,095<br>1,399<br>1,090<br>1,099<br>1,399<br>1,000<br>1,245<br>1,299<br>1,415<br>1,660  |
| Spendor S1 System 1150 System 1150 The Tital Topic Type Titan Logic Type Titan Corbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE500 Acoustic Energy AE500 Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Apertura Nova Apertura Nova Arcaydis AKS ATC SCM10 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPX Audio Physic Step Audiovector M1 Super Audiovector M1 Super  | Kono o kono e e e e e e e e e e e e e e e e e e  |                     | 549<br>750<br>689<br>650<br>600<br>790<br>535<br>599<br>765<br>599<br>765<br>1,000<br>1,245<br>1,375<br>1,200<br>930<br>1,000<br>1,299<br>1,415<br>1,299<br>1,299<br>1,299<br>1,299   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2 Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE500 Acoustic Ener | 10年的10日本日日日本年日日日本年日日日本年日日日本日日本日日   |                     | 549<br>750<br>689<br>650<br>660<br>699<br>790<br>535<br>880<br>599<br>765<br>599<br>1,245<br>1,250<br>1,395<br>1,099<br>1,399<br>1,099<br>1,299<br>999<br>1,415   |
| Spendor S1 System 1150 System 1150 The Tital Topic Type Titan Logic Type Titan Corbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE500 Acoustic Energy AE500 Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Apertura Nova Apertura Nova Arcaydis AKS ATC SCM10 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPX Audio Physic Step Audiovector M1 Super Audiovector M1 Super  | <b>作的性的的的性的性性性性性的的性性</b>   |                     | 549<br>750<br>689<br>650<br>600<br>699<br>790<br>535<br>800<br>599<br>765<br>599<br>850<br>1,245<br>1,245<br>1,245<br>1,245<br>1,299<br>1,090<br>1,090<br>1,419<br>1,299<br>1,419<br>1,299<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1,419<br>1, |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2 Titan Corbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE51 Acoustic Solutions Eight Aliante Moda Aliante Moda Apertura Nova Apertura Nova Arcaydis AC1 Arcaydis AC1 Arcaydis AK5 ATC SCM10 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPx Audiovector M1 Super Audiovector M1 Sig AVI Positron B&O Beolab 4000 B&W DM604 Ser II   | 10年的10日本日日日本年日日日本年日日日本年日日日本日日本日日   |                     | 549<br>750<br>689<br>650<br>660<br>699<br>790<br>535<br>880<br>599<br>765<br>599<br>1,245<br>1,250<br>1,395<br>1,099<br>1,399<br>1,099<br>1,299<br>999<br>1,415   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Corbital TLC Classic 2 TLC Classic 2 TLC Classic 1 Totem Rokk Triangle Zephyr II  ### Fight 10 ### Figh | <u> </u>   |                     | 549 750 689 650 600 699 790 850 850 850 1,000 1,245 1,375 1,200 1,395 1,095 1,090 1,415 1,299 1,415 1,299 1,109 1,  |
| Spendor S1 System 1150 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Apertura Prima Apertura Nova Arcaydis AC1 Arcaydis AC1 Arcaydis AC1 Arcaydis AC1 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPX Audio Vote AN-I/SPX Audio Vote AN-I/SPX Audio Vote AN-I/SPX Audiovector M1 Super Audiovector M1 Super Audiovector M2 Audiovector M2 B&W DM604 Ser II B&W CDM/SE B&W Mautilus 805   | **************************************   |                     | 549 750 689 650 600 699 790 535 800 1,245 1,375 1,000 1,249 1,399 1,000 1,299 1,399 1,415 1,299 999 1,441 1,299 1,449 899 1,449   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE500 Acoustic Ene | 10.00年生生生的生物的的生物的的生生生物的的生生物的生生物的生物生物的  |                     | 549<br>7500<br>689<br>6500<br>699<br>7900<br>535<br>800<br>599<br>765<br>599<br>8500<br>1,245<br>1,375<br>1,295<br>1,095<br>1,395<br>1,415<br>1,399<br>1,415<br>1,299<br>999<br>91,1,449<br>1,299<br>1,100<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1,000<br>1    |
| Spendor S1 System 1150 Ty4 TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Logic T/2 Titan Logic T/2 Titan Coft Titan Coft Titan Logic T/2 Titan Coft Titan Logic | 10世的 10世代 10世代 10世代 10世代 10世代 10世代 10世代 10世代   |                     | 549 750 689 650 600 699 790 535 800 1,245 1,375 1,000 1,249 1,399 1,000 1,299 1,399 1,415 1,299 999 1,441 1,299 1,449 899 1,449   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE51 Acoustic Solutions Eight Aliante Moda Apertura Prima Apertura Nova Arcaydis AC1 Arcaydis AC1 Arcaydis AC5 Audio Note AN-J/D Audio Note AN-J/SPx Audio Note AN | 10日生10日生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生生  |                     | 549 7500 689 6500 699 7900 8500 8500 8500 1,2045 1,375 1,2045 1,399 1,000 1,299 1,415 1,399 1,415 1,450 1,449 849 1,1000 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500  |
| Spendor S1 System 1150 The Title Tit | <b>生中四世中的生生生中生的100年的100年中日100年代生日100日生生</b>  |                     | 549 750 689 650 600 699 790 535 800 1,245 1,375 1,299 1,399 1,000 1,245 1,299 1,199 1,449 1,100 849 1,100 1,500 900 1,000 1,000 1,000   |
| Spendor S1 System 1150 Ty4 TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Logic T/2 Titan Coft Ty2 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE50 Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Apertura Prima Apertura Nova Arcaydis AC1 Arcaydis AC2 Arcaydis AC2 Ac   | 在 10 10 10 10 10 10 10 10 10 10 10 10 10   |                     | 549 750 689 650 600 699 790 850 1,245 1,375 1,000 1,245 1,375 1,000 1,249 1,399 1,000 1,299 1,399 1,445 1,299 1,449 1,449 1,450 1,500 846 1,500 1,000 1,500   |
| Spendor S1 System 1150 The Title Tit | <u> </u>   |                     | 549 750 689 650 600 699 790 535 800 1,245 1,375 1,299 1,399 1,000 1,245 1,299 1,199 1,449 1,100 849 1,100 1,500 900 1,000 1,000 1,000   |
| Spendor S1 System 1150 Ty4 TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Logic T/2 Titan Logic T/2 Titan Coftal TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE2-II Acoustic Solutions Eight Aliante Moda Apertura Prima Apertura Nova Arcaydis AC1 Arcaydis AC1 Arcaydis AC4 Audio Note AN-I/D Audio Note AN-I/D Audio Note AN-I/SPX BAUDIO NOTE AN-I/SPX Audio Note AN-I | 四条件的四条的四条件的一条的四条件的四条件的四条件的四条件的四条件的四条件的一条件的一条件的一条件的一条件的一条件的一条件的一条件的一条件的一条件的一  |                     | 549 750 689 650 600 699 790 850 850 1,245 1,375 1,000 1,245 1,375 1,000 1,299 1,399 1,400 1,299 1,445 1,299 1,449 899 1,449 899 1,000 846 1,500 846 1,500 875 893   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 Tannoy Definition D100 Tible Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE51 Acoustic Solutions Eight Aliante Moda Apertura Prima Apertura Nova Arcaydis AC1 Arcaydis AC1 Arcaydis AC5 Audio Note AN-J/D Audio Note AN-J/SPx Audio Physic Step Audiovector M1 Super Audiovector M2 Audiovector M1 Sig AVI Positron B&O Beolab 4000 B&W DM604 Ser II B&W CDM75E B&W Nautilus 805 Bandor Trident BKS Audio Hybrid 107 Bose A'mass AM5 Bose 701 Boston VR40 Carlsson OA-52.2 Castle Inversion 50 Castle Harlech Celestion A1 Celestion C3  | <u> </u>   |                     | 549 7500 689 6500 699 7900 689 8500 1,0000 599 8500 1,245 1,375 1,2000 1,299 1,0000 1,299 1,419 1,419 1,419 1,419 1,5000   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  ### 100 ## | <u>tentertendender der kentender den der kerender kendere der den der kenderender kenderende kenderender konderender kenderender kenderender kenderender kenderender kenderender kenderender konderender kenderender konderender konderender</u> |                     | 549 750 689 650 600 699 790 535 800 1,245 1,375 1,000 1,245 1,379 1,090 1,399 1,449 1,100 849 1,100 846 875 899 899 1,499 1,499   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 Tannoy Definition D100 Tible Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE51 Acoustic Solutions Eight Aliante Moda Apertura Prima Apertura Nova Arcaydis AC1 Arcaydis AC1 Arcaydis AC5 Audio Note AN-J/D Audio Note AN-J/SPx Audio Physic Step Audiovector M1 Super Audiovector M2 Audiovector M1 Sig AVI Positron B&O Beolab 4000 B&W DM604 Ser II B&W CDM75E B&W Nautilus 805 Bandor Trident BKS Audio Hybrid 107 Bose A'mass AM5 Bose 701 Boston VR40 Carlsson OA-52.2 Castle Inversion 50 Castle Harlech Celestion A1 Celestion C3  | 四条件的四条的四条件的一条的四条件的四条件的四条件的四条件的四条件的四条件的一条件的一条件的一条件的一条件的一条件的一条件的一条件的一条件的一条件的一  |                     | 549 7500 689 6500 699 7900 689 8500 1,0000 599 8500 1,245 1,375 1,2000 1,299 1,0000 1,299 1,419 1,419 1,419 1,419 1,5000   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E801 TO E1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE500 Acoustic Energy AE500 Acoustic Solutions Eight Aliante Moda Apertura Prima Apertura Nova Arcaydis AKS ATC SCM10 Audio Note AN-I/D Audio Note AN-I/SPX BAUGOVECTOr M1 Sig AVI Positron B&O Beolab 4000 B&W DM604 Ser II B&W CDM75E B&W Nautilus B05 Bandor Trident BKS Audio Hybrid 107 Bose A'mass AM5 Bose 701 Boston VR40 Carlsson OA-52.2 Castle Inversion 50 Castle Harlech Celestion A1 Celestion A2 Cerviin-Vega AL-1000 Cerviin-Vega AL-1000 Cerviin-Vega 1515 Chario Ref 1000T  | <u>在世代生活的生活性的自己的自己的,是是一种的自己的,是自己的,是自己的,是自己的,是自己的,是自己的,但是是自己的,但是是自己的,但是是是一种的,但是是是一种的。</u>   |                     | 549 7500 689 650 600 699 7505 555 8500 1,245 1,375 1,000 1,299 1,399 1,419 1,100 849 1,100 900 1,500 900 1,500 875 875 8899 899 1,100 1,500 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 879 1,100 1,500 879 1,100 1,500 879 1,100 1,500 879 1,100 1,500 879 1,100 1,500 879 1,100 1,500 879 1,100 1,500 879 1,100 1,500 879 1,100 1,500 879 1,100 1,500 879 1,100 1,500   |
| Spendor S1 System 1150 T+A TB 100 Tannoy Definition D100 TIDL Cotswold CF200 Titan Logic T/2B Titan Logic T/2 Titan Orbital TLC Classic 2 TLC Classic 2 TLC Classic 1 Totem Mite Totem Rokk Triangle Zephyr II  E301 TO £1,500 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE509 Acoustic Energy AE51 Acoustic Solutions Eight Aliante Moda Apertura Prima Apertura Nova Arcaydis AC1 Arcaydis AC1 Arcaydis AC5 Audio Note AN-J/D Audio Note AN-J/D Audio Note AN-J/SPx Audio Note AN- | **************************************   |                     | 549 750 689 650 600 699 790 850 850 1,000 1,245 1,375 1,205 1,395 1,395 1,419 999 1,100 1,500 1,  |



## HI-FI PRICE GUIDE

| Cura CA-20   |          | - | 1,199          | Alianto Zota                                     |            |               | 1.050          | Totage Tab.   | E.         | _                             | 2 200            | MA Shudia CO                                   | 100      | - 5000                                |
|--|----------|---|----------------|--|------------|---------------|----------------|---|------------|-------------------------------|------------------|--|----------|---------------------------------------|
| Dali 850   | 和        | 0 | 1,100          | Aliante Zeta<br>Aliante Linea                    | 五          | 0             | 1,850 2,060    | Totem Tabu<br>Totem The Forest                      | 和          | 0                             | 2,299 2,675      | M-A Studio 60<br>Naim DBL Active               | 和        | 5,000<br>8,050                        |
| Def Tech BP8B                                      | Ŧ        | 0 | 1,000          | Aliante One                                      | 0          | 0             | 2,700          | Veritas 25  | Ŧ          | 0                             | 1,750            | Neolith NEO 2                                  | H        | 3,499                                 |
| Def Tech BP10B                                     | ±        | 0 | 1,500          | Alon I Mk II                                     | Ŧ          | 0             | 1,795          | Veritas H1  | ¥          | D                             | 2,995            | Neolith NEO 3                                  | ±        | 4,999                                 |
| Diapason Prelude II<br>Diapason Karis              | 모        | 0 | 875            | Alon II Mk II                                    | Ŧ          | 0             | 2,495          | Wilson benesch Orator                               | Ŧ          | 0                             | 2,900            | ProAc Response 3.8                             | #        | 3,990                                 |
| Dynaudio Contour 1.1                               | 9        | 0 | 1,275<br>879   | ALR/Jordan Note 7 Apertura Agora Signature       | 里          | 0             | 2,500          | Zingali Overture 2S                                 | H          | 0                             | 1,975            | ProAc Future 1 ProAc Response 5                | 和        | <ul><li>5,875</li><li>9,000</li></ul> |
| Dynaudio Audience 70                               | Ŧ        | 0 | 1,100          | Apertura Tanagra                                 | Ŧ          | 0             | 2,395          | OVER £3,000   |            |                               | 40.000           | ProAc Future 2                                 | 파<br>조   | 0 10,575                              |
| Dynaudio Contour 1.3                               | <b>B</b> | 0 | 1,198          | Apertura Tanagra Sig                             | Ŧ          | 0             | 2,795          |   |            |                               |                  | ProAc Response 4                               | ±        | 12,000                                |
| Dynaudio Audience 80                               | Ŧ        | 0 | 1,460          | ATC SCM20SL                                      | H          | 0             | 1,750          | Acoustic Energy AE5                                 | ¥          | 0                             | 7,995            | Prof Monitor Co MB1P                           | <u>B</u> | 5,135                                 |
| Electrocompaniet EC-M1 Electrocompaniet EC-Qube    | 丑        | 0 | 995<br>1,195   | ATC SCM20 Tower SL<br>Audio Note AN-E/D          | #          | 0             | 2,400<br>1,520 | Alon Lotus SE<br>Alon V Mk II                       | 和          | 0                             | 3,500<br>5,495   | Prof Monitor Co BB5-P<br>Prof Monitor Co MB1-A | 五        | 8,841<br>14,805                       |
| Electrocompaniet EC-Qube SE                        | 9        | 0 | 1,495          | Audio Note AN-E/SPx                              | 显显         | 0             | 2,250          | Alon Adriana  | 5          | 0                             | 8,500            | Prof Monitor Co BB5 A                          | 9        | o 19,799                              |
| Epos ES15  | ¥        | 0 | 890            | Audio Physic Spark 2                             | 0          | 0             | 1,749          | Alon Circe  | ¥          | 0                             | 12,000           | Prof Monitor Co MB1/XBD-A                      | Ŧ        | 22,266                                |
| Epos ES22  | 和        | 0 | 1,185          | Audio Physic Tempo                               | 业          | 0             | 1,999          | Alon Phalanx  | ¥          | 0                             | 19,000           | Prof Monitor Co BB5/XBD-A                      | ±        | 32,606                                |
| Harbeth HL-K6<br>Harbeth HL-Compact 7              | 9        | 0 | 1,049          | Audio Wk'p Cyclone 34<br>Audiostatic DCI         | Ŧ          | 0             | 2,000          | Apertura Athena<br>Apertura Atlante                 | ¥          | 0                             | 6,995            | Rehdeko RK125<br>Rehdeko RK145                 | =        | 3,200                                 |
| Harbeth BBC LS5/12A                                | 且        | 0 | 1,499          | Audiovector M3                                   | 和          | □<br><b>□</b> | 1,899          | ATC SCM20A PRO                                      | 五          | 0                             | 8,995<br>3,049   | Rehdeko RK175                                  | <u>n</u> | • 4,800<br>• 8,800                    |
| Impulse Kora                                       | Ŧ        |   | 1,250          | Audiovector M3 Sig                               | Ŧ          | 0             | 2,499          | ATC SCM20TASL                                       | 业          | 0                             | 3,995            | Revel Gem                                      | <u>n</u> | 5,295                                 |
| Infinity Overture 1                                | <u>B</u> | 0 | 900            | B&O Beolab 6000                                  | ¥          | 0             | 1,550          | ATC SCM50PSL  | ¥          | 0                             | 4,250            | Rockport Merak                                 | <b>A</b> | 0 13,995                              |
| Infinity Kappa 80<br>Infinity Kappa 90             | <u>n</u> | 0 | 995            | B&O Beolab 8000<br>B&O Beolab Penta 3            | ¥          | 0             | 2,100          | ATC SCM100PSL                                       | 业          | 0                             | 4,950            | Rockport Syzygy                                | #1       | 15,000                                |
| Infinity Overture 2                                | ±        | 0 | 1,295          | B&W Nautilus 804                                 | 和          | 0             | 2,650<br>2,500 | ATC SCM50ASL<br>ATC SCM100ASL                       | 和          | 0                             | 5,775<br>6,475   | Rockport Procyon Ruark Solstice                | 和        | • 32,500<br>• 4,000                   |
| Jadis Orchestra                                    | <u>B</u> | 0 | 999            | Bandor Bandora/Mora                              | Ŧ          | ō             | 2,350          | ATC SCM70PSL  | 파          | 0                             | 8,000            | Ruark Excalibur                                | #        | 7,000                                 |
| Jamo Concert 8                                     | 业        | 0 | 1,365          | Bandor Siren                                     | ¥          | 0             | 2,800          | ATC SCM70ASL  | <b>±</b> I | 0                             | 10,000           | Shahinian Hawk                                 | #        | 5,495                                 |
| JBL SVA 1600<br>JBL 4312 MkII-WX                   | #        | 0 | 850<br>1,000   | BKS Audio Hybrid 128<br>Bose 901 VI              | Ŧ          | 0             | 2,549<br>1,650 | ATC SCM200ASL<br>ATC SCM300ASL                      | ¥          | 0                             | 15,595<br>17,731 | Shahinian Diapason<br>Shinpy Enigma            | Ŧ        | 9,495                                 |
| JBL SVA 1800                                       | ¥        | 0 | 1,000          | Boston Lynfield 300L                             | 므          | 0             | 2,000          | Audio Note AN-JSE Silver                            | 和          | 0                             | 7,900            | Shinpy Euphonia                                | 和        | <b>3</b> ,995 <b>5</b> ,995           |
| JBL SVA 2100                                       | #        | O | 1,250          | Castle Inversion 100                             | 和          | 0             | 1,975          | Audio Note AN-ESE Silver                            | <u> </u>   | 0                             | 9,600            | Shinpy Magnifica Suprema                       | Ŧ        | 0 14,500                              |
| JM Lab Cobalt 815                                  | Ŧ        | 0 | 999            | Celestion A3                                     | #          | 0             | 2,399          | Audio Physic Virgo 2                                | Ŧ          | 0                             | 3,399            | Shun Mook Bella Voce                           | ¥        | 6,000                                 |
| JM Lab Electra 905<br>JM Lab Cobalt 820            | 五        | 0 | 1,199          | Celestion Kingston Charlo Academy 2              | #          | 0             | 2,500          | Audio Physic Avanti 2<br>Audio Physic Caldera       | ¥          | 0                             | 6,699<br>10,599  | Snell XA-75ps<br>Sonus Faber Guarneri Homage   | 五        | <ul><li>4,500</li><li>5,795</li></ul> |
| Jordan Watts JH1+1                                 | Ŧ        | 0 | 1,150          | Chario Academy Mill'm 2                          | -          | 0             | 2.100          | Audio Physic Medea                                  | 和          |                               | 24,999           | Sonus Faber Amati Homage                       | 五        | 5,795<br>11,450                       |
| KEF Q75  | ¥        | 0 | 999            | Credo SPB 003                                    | ¥          | 0             | 1,820          | Audiostatic DCI Plus                                | Ŧ          |                               | 3,750            | Sony SS-M9ED                                   | Ŧ        | 0 10,000                              |
| KEF Ref. Model One                                 | ¥        | 0 | 1,199          | Credo SPB 009                                    | ¥          | 0             | 2,453          | Audiovector 5X                                      | Ŧ          | 0                             | 3,999            | Sound-Lab Dynastat                             | Ŧ        | 3,790                                 |
| KEF RDM Three<br>Kelly KT3                         | 和        | 0 | 1,500          | Cura CA-30<br>Dali Grand Coupe                   | 和          | 0             | 1,799          | Audiovector 6X<br>Avalon Avatar                     | 和          | 0                             | 5,699<br>5,995   | Sound-Lab Aura<br>Sound-Lab Pristine III+      | 和        | ☐ 6,490<br>☐ 7,990                    |
| Linn Tukan Aktiv                                   | <u></u>  | 0 | 1,050          | Def Tech BP2002                                  | Ŧ          | 0             | 2,400          | Avalon Arcus  | 和          | 0                             | 6,995            | Sound-Lab A-3                                  | 和        | 7,990                                 |
| Linn Keilidh Aktiv                                 | ¥        | 0 | 1,250          | Diapason Adamantes III                           | H          | 0             | 1,995          | Avalon Eclipse Classic                              | Ŧ          | 0                             | 8,995            | Sound-Lab Ultimate II                          | Ŧ        | 13,950                                |
| L Voice Auditorium                                 | 五        | 0 | 1,500          | Dynaudio Contour 1.8                             | 土          | 0             | 1,894          | Avalon Radian HC                                    | ¥          | 0                             | 13,995           | Sound-Lab A-1                                  | ¥        | □ 13,990                              |
| Lowther Accolade 2<br>Lumley L/M3.5                | 和        |   | 1,199          | Dynaudio Crafft Dynaudio Contour 3.0             | 土          | 0             | 2,598 2,930    | Avalon Eidolon<br>Avalon Sentinel                   | 和          |                               | 20,495<br>79,995 | Sound-Lab Ultimate III<br>Sound-Lab Ultimate I | #1       | ☐ 18,950<br>☐ 23,950                  |
| Magnat Vintage 720                                 | #1       | 0 | 1,199          | ECA Servo A.2                                    | 和          | 0             | 2,450          | Avantgarde Uno                                      | 취<br>최     |                               | 5,300            | S Coast King Arthur                            | 五        | 3,095                                 |
| Magneplanar SMG-C SE                               | Ŧ        |   | 990            | ELS Res'ch Vision                                | Ŧ          |               | 2,800          | Avantgarde Duo                                      | Ŧ          |                               | 7,500            | S Coast Excalibur Ref.                         | ±        | 0 12,400                              |
| Magneplanar MG-0,6 SE                              | ¥        |   | 1,370          | Epos ES30  | ¥          | 0             | 2,385          | Avantgarde Trio Compact                             | Ŧ          | D                             | 16,500           | Spendor FL10                                   | ¥        | 3,475                                 |
| Meridian Argent 1<br>M&K S-125                     | 0        | 0 | 995<br>1,150   | Eurostatic Model 1<br>Gamma Epoch Ref Five       | 和          |               | 2,250 2,999    | Avantgarde Trio Classic<br>AVI Gravitron            | Ŧ          |                               | 19,708<br>4,250  | T+A A4D<br>T+A A3D                             | ¥        | 3,850                                 |
| Mission 705a                                       | ±        | 0 | 900            | Harbeth HL-S8                                    | Ŧ          | 0             | 1,999          | B&W Nautilus 803                                    | 和          | 0                             | 4,000            | T+A A2D  | 和        | • 4,550<br>• 8,400                    |
| Mission 754f                                       | 五        | 0 | 1,298          | Helius Syrius II                                 | Ŧ          | 0             | 2,395          | B&W Silver Signature                                | 1          | 0                             | 5,500            | Tannoy Edinburgh TW                            | Ŧ        | 3,250                                 |
| M-A Studio 6                                       | <u>=</u> | 0 | 900            | Helius Syrius I                                  | ¥          | 0             | 2,850          | B&W Nautilus 802                                    | Ŧ          | 0                             | 6,000            | Tannoy Definition D900                         | ±        | 3,999                                 |
| M-A Silver 9<br>M-A 705PMC                         | Ŧ        | 0 | 1,000          | Heybrook Octet                                   | 和          | 0             | 1,799          | B&W Nautilus 801                                    | 和          | 0                             | 8,500            | Tannoy GRF Memory TW                           | Ŧ        | 4,000                                 |
| Mus Tec Condor                                     | 和        | 0 | 1,150          | Hi Q Sound SM108<br>Impulse Lali                 | 和          |               | 2,000<br>1,850 | B&W Nautilus<br>Bandor Bandoline                    | 和          | 0                             | 35,000<br>3,290  | Tannoy Westminster TW Tannoy Canterbury 15 TW  | 和        | □ 6,600<br>□ 7,720                    |
| Mus Tec Hawk                                       | Ŧ        | 0 | 1,250          | Infinity Overture 3                              | Ŧ          | 0             | 1,750          | Beauhorn Virtuoso Bronze                            | 和          |                               | 3,325            | Tannoy Westminster Royal                       | Ŧ        | 14,920                                |
| Mus Tec Eagle                                      | *        | 0 | 1,500          | Infinity Kappa 100                               | <u>=</u>   | 0             | 1,895          | Beauhorn Virtuoso Gold                              | ¥          | D                             | 3,395            | TDL Ref Standard-m                             | #1       | 6,000                                 |
| Naım Credo<br>Neat Elite                           | 和        | 0 | 1,090          | Inner Sound Isis Jamo Concert 11                 | #1         |               | 2,375 2,250    | Beauhorn Virtuoso Reference<br>Beauhorn Accelerando | ¥          |                               | 3,799<br>6,600   | Titan Goliath T/4<br>Totem Mani-2              | 和        | 4,112<br>3,100                        |
| Opera Terza  | ±1       | 0 | 995            | JM Lab Electra 915                               | 和          | 0             | 1.899          | BKS Audio Hybrid 175                                | 和          | 0                             | 3,995            | Totem Shaman                                   | 五        | <ul><li>3,100</li><li>9,999</li></ul> |
| Opera Callas Gold                                  | 9        | 0 | 1,095          | JM Lab Electra 920                               | ¥          | 0             | 2,399          | Boston Lynfield 500L                                | Ŧ          | 0                             | 4,449            | Veritas 45                                     | Ŧ        | 3,750                                 |
| Opera Divina II                                    | <u>B</u> | 0 | 1,495          | Jordan Watts JH2K                                | ¥          | 0             | 2,400          | Carfrae Little Big Horn                             | Ŧ          |                               | 6,795            | Veritas H2                                     | *        | D 4,495                               |
| Orelle Swing Origin Live Soveriegn                 | 五        | 0 | 1,200          | Jordan Watts JH5K<br>KEF Ref. Model Two          | Ŧ          | 0             | 3,000          | Carfrae Carfraehorn<br>Chario Academy 3j            | Ŧ          |                               | 18,000<br>5,999  | Veritas H3<br>Wilson Audio Cub                 | 和        | 5,995<br>5,495                        |
| Paradigm Studio/100                                | #1       | 0 | 950            | KEF Ref. Model Three                             | <b>+</b> 1 | 0             | 1,999          | Credo SPB 012                                       | 和          | 0                             | 3.147            | Wilson Audio WATT 5                            | <u> </u> | 5,495<br>8,390                        |
| Polk LS70  | #        | 0 | 1,200          | Linn Kaber Passive                               | ¥          | 0             | 2,000          | Credo SDL 001                                       | Ŧ          | 0                             | 5,677            | Wilson Audio WITT II                           |          | 0 10,995                              |
| Polk RT20p   | #        | 0 | 1,500          | Linn Kaber Aktiv                                 | ¥          | 0             | 2,640          | Dali Grand  | ¥          | 0                             | 4,000            | Wilson Audio Maxx                              | Ŧ        | 34,995                                |
| ProAc Tablette 2000 Sig<br>ProAc Studio 125        | #        | 0 | 899<br>999     | L Voice Aud'm Avatar<br>Lowther Fidelio          | 和          |               | 2,100          | Def Tech BP2000<br>Diapason Adamantes Ltd           | 五          | 0                             | 3,600<br>3,995   | Wilson benesch Actor Wilson benesch ACT1 spkr  | Ŧ        | 3,900<br>6,900                        |
| ProAc Response 1 SC                                | <u> </u> | 0 | 1,199          | Lowther Academy                                  | Ŧ          |               | 2,399          | Dynaudio Contour 3.3                                | 和          | 0                             | 4,815            | Wilson benesch Act 2                           | 和        | <ul><li>6,900</li><li>8,900</li></ul> |
| Prof Monitor Co LB1                                | <u>B</u> | 0 | 999            | Lowther Bel Canto                                | Ŧ          | D             | 2,699          | Dynaudio Confidence 3                               | ±          | 0                             | 4,846            | Wilson benesch The Bishop                      | 业        | o 20,000                              |
| Rega XEL   | 业        | 0 | 1,040          | Lumley I_/M2 Mk3                                 | ¥          | 0             | 2,995          | Dynaudio Confidence 5                               | ¥          | 0                             | 5,924            |  |          |                                       |
| RMS Revelation S 1<br>Roksan Ojan 3X               | 和        | 0 | 1,299          | Magnat Vintage 760<br>Magneplanar MG-10 SE       | 和          |               | 1,999          | Dynaudio Consequence<br>Dynaudio Evidence           | 和          | 0                             | 14,566<br>50,909 |  |          |                                       |
| Royd The Albion                                    | 2        | 0 | 985            | Magneplanar MG-1,5 SE                            | ±          |               | 1,780          | Eggleston Rosa                                      | 和          | 0                             | 8,500            |  | 1992.00  |                                       |
| Ruark Solus  | <u>n</u> | 0 | 1,200          | Magneplanar MG-2,7 SE                            | ¥          |               | 2,650          | Electrofluidics Sonolith 2.2xi                      | 业          | 0                             | 5,999            |  |          |                                       |
| Shahinian Super Elf<br>Shahinian Starter           | 里        | 0 | 875<br>1,195   | Martin-Logan Aerius i<br>Meridian M60            | ± ±        |               | 2,199 2,150    | ELS Res'ch Vista<br>ELS Res'ch Illusion Mkll        | 和          |                               | 3,900<br>9,000   |  |          |                                       |
| Shahinian Compass                                  | 和        | 0 | 1,195          | M-A Studio 20SE                                  | ±1         | 0             | 2,500          | Eurostatic Model 2                                  | 和          |                               | 3,650            |  |          |                                       |
| Shinpy Micraphonica                                | <u>B</u> | 0 | 1,099          | Naim SBL Active                                  | ¥          | 0             | 1,885          | Impulse Ta'us                                       | ¥          | D                             | 3,100            |  |          |                                       |
| Silverado Ryder<br>Soliloguy SM 2A3                | #        | 0 | 1,395          | Naim SBL Passive<br>Neolith NEO 1                | 丰          | 0             | 2,030          | Inner Sound Eros                                    | 业          |                               | 3,995            |  |          |                                       |
| Sonus Faber Concerto                               | 8        | 0 | 945            | Opera Caruso II                                  | H +        | 0             | 2,999          | Jadis 2<br>Jadis 1                                  | 和          |                               | 5,900<br>18,900  |  |          |                                       |
| Sonus Faber Concerto GP                            | ¥        | 0 | 999            | Origin Live Conqueror                            | #1         | 0             | 1,750          | Jamo Oriel  | 파<br>조     | 0                             | 9,000            |  |          |                                       |
| Sonus Faber Signum                                 | <u>=</u> | 0 | 1,200          | Polk LS90  | ±          | 0             | 1,700          | JM Lab Mini Utopia                                  | <u> </u>   | 0                             | 4,500            | ANDREA   |          |                                       |
| S Coast Merlin Monitor<br>S Coast Classic          | <u> </u> | 0 | 849<br>1,495   | Posselt Albatross<br>ProAc Response 1.5          | #          |               | 2,500          | JM Lab Mezzo Utopia<br>JM Lab Utopia                | 业          | 0                             | 7,300            |  |          | of the second second                  |
| Spendor SP3/1P                                     | 9        | 0 | 825            | ProAc Response 2.5                               | 业          | 0             | 1,790          | JM Lab Grande Utopia                                | 和          | 0                             | 18,300<br>35,000 | <b>SUBWOOFERS</b>                              |          |                                       |
| Spendor FL6  | 业        | 0 | 1,099          | Prof Monitor Co AB1                              | 9          | 0             | 1,758          | Jordan Watts JH10K                                  | ¥          | 0                             | 7,570            | KEY  |          |                                       |
| Spendor SP2/3<br>Spendor FL8                       | <u>B</u> | 0 | 1,187          | Prof Monitor Co IB1S<br>Rehdeko RK115            | 9          | 0             | 2,697          | KEF Ref. Model Four<br>Kochel K-300S                | ¥          | 0                             | 3,299            |  | edicate  | :d                                    |
| T+A TAS 1200E                                      | 和        | 0 | 1,355          | Ruark Crusader II                                | 丑          | 0             | 1,700          | Linn Keltik Aktiv                                   | 和          |                               | 10,000<br>6,000  | power amplifier.                               |          |                                       |
| T+A TB 120   | Ŧ        | 0 | 1,060          | Ruark Equinox                                    | 1          | 0             | 2,000          | L Voice Avatar OBX                                  | 和          | 0                             | 4,000            | THX - THX-approved                             | by Luc   | casFilm                               |
| Tannoy Definition D300                             | #        | 0 | 999            | Shahinian Arc                                    | ¥          | 0             | 1,995          | L Voice Air Scout                                   | 业          | D                             | 19,500           | for use in Home THX ins                        |          |                                       |
| TDL Cheviot CF300<br>Technics SB-M1000             | 和        | 0 | 850<br>1,500   | Shahinian Obelisk<br>Shinpy Euritmica            | #          | 0             | 2,850<br>1,995 | L Voice Air Partner S<br>Lowther Delphic            | 山          |                               | 37,200           | to ase in nonice may his                       | ALIEUT.  | 11.31                                 |
| Titan Enigma T/3                                   | 田        | 0 | 825            | Shinpy Altair                                    | 中田田中       | 0             | 2,895          | Lowther Delphic<br>Lowther Opus One                 | 和          |                               | 3,099<br>4,999   | Acoustic Energy AE108S                         | <b>©</b> | 300                                   |
| Titan Sovereign T/4                                | ±        | 0 | 1,175          | Silverado Silverado 1                            | <u>B</u>   | 0             | 1,995          | Lumley L/M 2 Sig. Mk3                               | 파<br>조     | 0                             | 4,500            | Allison Mini Ref Sub                           | •        | 210                                   |
| Totem The Arro                                     | ¥        | 0 | 959            | Soliloquy 5.3                                    |            | 0             | 1,750          | Magnat Vintage 770                                  | ±          | 0                             | 3,500            | Alon Poseidon                                  | 0        | 12,000                                |
| Totem The Staaf Totem Model One                    | #        | 0 | 1,249          | Sonus Faber Electa Amator 2<br>Sound-Lab Quantum | 五百         |               | 2,849 2,150    | Magneplanar MG-3.5SE<br>Magneplanar MG-20 SE P      | 和          |                               | 3,800<br>10,300  | ATC SCM 0.1/15<br>Audio Physic Terra           | 0        | 3,810<br>3,499                        |
| Veritas 7  | <u>=</u> | 0 | 1,000          | S Coast Excalibur                                | 和          |               | 2,750          | Magneplanar MG-20 SE A                              | 和          |                               | 11,000           | B&W ASW1000                                    | 0        | 500                                   |
| Veritas 15   | ¥        | 0 | 1,300          | Spendor SP1/2                                    | 五十         | 0             | 1,674          | Martin-Logan SL3                                    | ¥          |                               | 3,399            | B&W ASW2000                                    | 0        | 800                                   |
| Veritas 20   | <u> </u> | 0 | 1,400          | Spendor SP100<br>T+A TB 140                      | 和          | 0             | 2,234<br>1,760 | Martin-Logan CLS IIz<br>Martin-Logan Re-Quest Z     | 和          |                               | 4,555<br>5,875   | B&W ASW3000<br>Boston CR400                    | 0        | 1,000<br>300                          |
| £1,501 TO £3,000                                   |          |   |                | Tannoy Definition D500                           | 和          | 0             | 1,999          | Meridian DSP5000                                    | <b>±</b> 1 | <ul><li>□</li><li>□</li></ul> | 3,295            | Boston VR500                                   | 0        | 450                                   |
|  |          |   |                | Tannoy Stirling TW                               | ±          | 0             | 2,200          | Meridian DSP5500                                    | Ŧ          | 0                             | 5,950            | Boston VR2000                                  |          | <b>10</b> 800                         |
| Acoustic Energy AE1 Sig<br>Acoustic Energy AE2 Sig | <u>R</u> | 0 | 1,995<br>2,995 | Tannoy Definition D700<br>TDL Studio Monitor-m   | 和          | 0             | 2,500<br>2,750 | Meridian DSP6000<br>M-A Studio 50                   | 和          | 0                             | 9,400<br>3,300   | Celestion CS135<br>Celestion CSW MkII          |          | 139<br>329                            |
|  | 1        | - | 2,555          | . Se stadio monitor III                          | A          | 2             | 2,750          | Stadio 30   | -          |                               | 3,300            | COLORION COVY IVINI                            | 0        | 323                                   |



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Celestion S1i

|      | estion S1i                  | 0 |     | 349            |
|------|-----------------------------|---|-----|----------------|
|      | estion A6s                  | 0 |     | 800            |
|      | win-Vega HT-10D             |   |     | 200            |
|      | win-Vega HT-12D             |   |     | 250            |
|      | irio Syntar Bass            |   |     | 299            |
|      | irio Hiper Bass             |   |     | 499            |
|      | do SDC 001                  | 0 |     | 3,054          |
|      | Le Bass                     | 0 |     | 350            |
|      | 10 SW303E                   | 0 |     | 200            |
|      | 10 SW400E                   | 0 |     | 250            |
|      | no SW410e                   | 0 |     | 300            |
|      | no SW505E                   | 0 |     | 300            |
|      | no Sub One<br>Control Sub 6 | 0 |     | 400            |
|      | Control Sub 10              | 0 |     | 300            |
|      | Lab Tantal SW20             | 0 |     | 349            |
| IM   | Lab Cobalt SW27A            | 0 |     | 599            |
|      | Lab Electra SW33A           | 0 |     | 899            |
|      | Lab Sub Utopia              | 0 |     | 2,200          |
|      | / Subwoofer                 |   |     | 130            |
|      | / SW40                      | 0 |     | 240            |
|      | / SW60                      | 0 |     | 350            |
|      | / SW-120                    | 0 |     | 500            |
|      | Model 20B                   | 0 |     | 349            |
|      | Model 30B                   | 0 |     | 499            |
| KEF  | Model AV1                   | 0 | THX | 2,499          |
| Ken  | wood SW500                  |   |     | 250            |
|      | wood SW501                  | 0 |     | 349            |
|      | n AV5150                    | 0 |     | 2,850          |
|      | pice RW24                   |   |     | 1,500          |
|      | gnat Vector Sub 30P         |   |     | 149            |
|      | gnat Vector Sub 30A         | 0 |     | 299            |
|      | gnat Omega 300              | 0 |     | 429            |
|      | ridian M2500                | 0 |     | 1,595          |
|      | K VX-7Mkll                  | 0 |     | 450            |
|      | K V-75 MKII                 | 0 |     | 650            |
|      | K VX-100                    | 0 |     | 750            |
|      | K V-125                     | 0 |     | 800            |
|      | K V-125 (THX)               | 0 | THX | 800            |
|      | K MX-70                     | 0 |     | 900            |
|      | K MX-150 (THX)              | 0 | THX |                |
|      | K MX-700<br>K MX-200        | 0 |     | 1,595<br>1,800 |
|      | K MX-350THX                 | 0 | THE |                |
|      | K MX-5000 (THX)             | 0 | THX |                |
|      | sion 75as                   | 0 |     | 548            |
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|      | ASW210                      | 0 |     | 700            |
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| Para | adigm PDR10                 | 0 |     | 250            |
|      | adigm Servo 15A             | 0 |     | 800            |
|      | PSW50                       | 0 |     | 350            |
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|      | PSW300                      | 0 |     | 750            |
|      | Q50                         | 0 |     | 375            |
|      | Q-100E                      | 0 |     | 495            |
|      | Strata III                  | 0 |     | 600            |
|      | Q-200E<br>Storm III         | 0 |     | 800            |
|      | Stadium II                  |   |     | 995            |
|      | Stentor II                  | 0 |     | 1,800          |
|      | Studio II                   | 0 |     | 4,000          |
|      | el Sub-15                   | 0 |     | 2,195          |
|      | san Ojan 3S                 | • |     | 795            |
|      | rk Log-Rhythm               | 0 |     | 750            |
|      | uence FW120                 |   |     | 249            |
|      | loquy S10                   |   |     | 1,050          |
|      | y SA-W305                   | 0 |     | 130            |
|      | fire Sub Junior             | 0 |     | 1,099          |
|      | fire True Sub               | 0 |     | 1,499          |
|      | fire Trus Sub Sig.          | 0 |     | 1,699          |
|      | noy mSUB 10                 | 0 |     | 250            |
|      | . Nucleus SBR<br>nami TS300 | 0 |     | 200<br>300     |
|      | nami TS200                  | 0 |     | 300            |
|      | nami TS210                  | 0 |     | 399            |
|      | lale Modus Sub Bass         | 9 |     | 180            |
|      | son Audio Puppy 5.1         |   |     | 8,450          |
|      | son Audio Whow III          | 0 |     | 0,999          |
|      | son Audio XS                |   |     | 7,000          |
|      | naha YST-SW45               | 0 |     | 140            |
|      | naha YST-SW90               | 0 |     | 180            |
|      | naha YST-SW160              | 0 |     | 280            |
| Yan  | naha YST-SW300              | 0 |     | 350            |
|      |                             |   |     |                |



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Pivoted.

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| Air Tangent Reference   |   |    | 14,000 |
| Audio Note AN-ARM 1     | 0 |    | 169    |
| Audio Note AN-0s        | 0 |    | 795    |
| Audio Note AN-1s        | 0 |    | 995    |
| Audiomeca SL5           |   | #  | 2,500  |
| Clearaudio Souther TQ-1 |   | #  | 1,670  |
| Clearaudio Master TQ-1  |   | #  | 3,620  |
| Dynavector 507          | 0 | "  | 1,995  |
| Graham Mk 2.0 Basic     | 9 |    | 1,810  |
| Graham Mk 2.0 Deluxe    | 0 |    | 2,650  |
| Helius Orion 4 Copper   | 0 |    | 549    |
| Helius Cyalene 2        | 0 |    | 1,495  |
| Kuzma Stogi S           | 0 |    | 399    |
| Kuzma Stogi             | 9 |    | 750    |
| Kuzma Stogi Ref         | 0 |    | 1,250  |
| Linn Akito              | 0 |    | 500    |
| Linn Ekos               | 9 |    | 1,500  |
| Moth Mk I               | 0 |    | 109    |
| Moth MKIII Stainless    | 9 |    | 146    |
| Moth Mk III Tungsten    | 9 |    | 174    |
| Moth Moth 900           | 9 |    | 598    |
| Naim ARO                | 9 |    | 1,070  |
| N'ham Interspace Arm    | 0 |    | 370    |
| N'ham Space             | 0 |    | 450    |
| N'ham Mentor            | 0 |    | 800    |
| N'ham Foot              | 0 |    | 1,100  |
| N'ham Anna Log Arm      | 9 |    | 1,500  |
| Pro-Ject 9              | 0 |    | 350    |
| Rega RB250              | 0 |    | 109    |
| Rega RB300              | 0 |    | 174    |
| Rega RB900              | 0 |    | 598    |
| Rockport Series 7000    |   | #  | 6,000  |
| Roksan Tabrız           | 0 | 77 | 350    |
| Roksan Tabriz Zi        | 0 |    | 450    |
| Roksan Artemiz          | 0 |    | 895    |
| SME 3009 Ser II Imp     | 0 |    | 309    |
| SME 3009 S2 Ser II Imp  | 0 |    | 338    |
| SME Series II 3009-R    | 9 |    | 514    |
| SME Series II 3010-R    | 9 |    | 526    |
| SME Series II 3012-R    | 9 |    | 565    |
| SME 309                 | 0 |    | 689    |
| SME 310                 | 9 |    | 705    |
| SME 312                 | 0 |    | 802    |
| SME Series IV           | 0 |    | 983    |
| SME Series V            | 0 |    | 1,461  |
| Triplanar V1A           | 0 |    | 3,500  |
| Triplanar V1B           | 9 |    | 3,750  |
| Wilson Benesch Act 0.5  | 0 |    | 795    |
| Wilson Benesch ACT2     | 0 |    | 1,350  |
| Zeta AS                 | 0 |    | 469    |
| Zeta VDH                | 0 |    | 549    |
|                         | - |    | - 100  |



## TUNERS

'P20' (etc.)- Number of presets. RDS – Radio Data System; receives text information on station, programme type etc.

| 110                  | - 800 |            |     |
|----------------------|-------|------------|-----|
| Arcam Alpha 7        | P24   |            | 230 |
| Arcam Alpha 8        | P24   |            | 280 |
| Arcam Alpha 10 DRT   | P07   |            | 800 |
| Ariston TX-510       | P20   |            | 50  |
| AVI S2000MT          | P16   |            | 599 |
| AVI S2000MT2         | P99   | <b>RDS</b> | 899 |
| Cambridge T500       | P64   |            | 180 |
| Creek T43            | P64   |            | 399 |
| Cymbol Digital Radio | P08   |            | 899 |

| Cyrus FM7.5                       | P29        |            | 398            | Pro-Ject 1/510                  |
|-----------------------------------|------------|------------|----------------|---------------------------------|
| Davidson-Roth FM Ref Classic      |            |            | 5,590          | Pro-Ject 2/510                  |
| Denon TU-260L MkII                | P40        | RDS        | 130            | Pro-Ject Classic/               |
| Denon TU-215RD                    | P40        | RDS        | 150            | Pro-Ject 6/510                  |
| Denon TU-425RD<br>Denon TU-1500RD | P40        | RDS        | 200            | Pro-Ject 6.9                    |
| Fanfare FT1                       | P40        | RDS        | 1,395          | Rega Planar 78<br>Rega Planar 2 |
| H/K TU930                         | P08<br>P30 |            | 150            | Rega Planar 3                   |
| H/K TU950                         | P30        | RDS        | 200            | Roksan Radius                   |
| Kenwood KT-2080                   | P20        | RDS        | 130            | Sherwood PM85                   |
| Kenwood KT-3080                   | P30        | RDS        | 180            | Sony PS-LX150H                  |
| Linn Kudos                        | P50        |            | 775            | Sony PS-LX300H                  |
| Lınn Kremlin                      | P80        |            | 2,600          | Technics SL-J110                |
| Magnum Dynalab FT11               |            |            | 499            | Technics SL-BD2                 |
| Magnum Dynalab FT-101A            |            |            | 795            | Technics SL-BD2                 |
| Magnum Dynalab Etude              |            |            | 1,250          | Technics SL-121                 |
| Magnum Dynalab MD108              |            |            | 4,990          | Technics SL-120                 |
| Marantz ST-48                     | P60        | RDS        | 120            | Thorens TD-180                  |
| Marantz ST-17<br>McIntosh MR7084  | P60        | RDS        | 600            | Thorens TD-280<br>Thorens TD166 |
| McIntosh MX118                    | P50        |            | 2,499<br>4,999 | Thorens TD-166                  |
| McIntosh MX130                    | P50<br>P50 |            | 6,999          | OVER £500                       |
| Meridian 504                      | P30        |            | 695            | OVER 1300                       |
| Musical Fidelity E50              | P20        |            | 300            | Audio Note AN-                  |
| Myryad T-30                       | P29        |            | 400            | Audio Note AN-                  |
| Myryad MT100                      | P39        |            | 600            | Audiomeca Rom                   |
| NAD 412                           | P24        |            | 190            | Audiomeca J1                    |
| NAD C440                          | P30        | <b>RDS</b> | 200            | Avid Volvere                    |
| NAD 414RDS                        | P30        | RDS        | 250            | Avid Acutus                     |
| NAD 710                           | P24        |            | 270            | Basis 2000                      |
| NAD 712                           | P24        |            | 330            | Basis 2001                      |
| Naim NAT03<br>Naim NAT02          |            |            | 615            | Basis Ovation II<br>Basis 2500  |
| Naim NAT01                        |            |            | 1,130          | Basis 2800                      |
| Onkyo T 421ORDS                   | P30        | RDS        | 180            | Basis Debut Gol                 |
| Onkyo T 409                       | P30        | KDS        | 230            | Basis Debut Gol                 |
| Onkyo T 411RDS                    | P30        | RDS        | 260            | Chantry QT Lev                  |
| Pioneer F-204RDS                  | P30        | RDS        | 140            | Clearaudio Solu                 |
| Pioneer F-504RDS                  | P40        | RDS        | 250            | Clearaudio Evoli                |
| Pioneer F-504RDS Precision        | P40        | <b>RDS</b> | 300            | Clearaudio Revo                 |
| Quad 99                           | P25        |            | 700            | Clearaudio Refe                 |
| Quad 77FM                         | P25        | RDS        | 700            | Clearaudio Mast                 |
| Rega Radio                        | P24        |            | 298            | DNM-Reson Rot                   |
| Roksan Kandy                      | P50        | RDS        | 375            | DNM-Reson Rot<br>Garrard 501    |
| Roksan Caspian<br>Rotel RT-935AX  | P50        |            | 695            | Impulse Moskito                 |
| Rotel RT940AX                     | P20        |            | 200            | Kuzma Stabi S                   |
| Sony ST-SE200                     | P30        |            | 100            | Kuzma Stabi                     |
| Sony ST-SE300                     | P30        | RDS        | 110            | Kuzma Stabi Re                  |
| Sony ST-SE500                     | P30        | RDS        | 140            | Linn LP12 Basık                 |
| Sony ST-SB920                     | P30        | RDS        | 180            | Linn LP12 Lingo                 |
| Sony ST-SA3ES                     | P30        | <b>RDS</b> | 250            | Michell Gyro Sp                 |
| Sony ST-S3000                     | P30        | RDS        | 250            | Michell Gyrodek                 |
| T+A T1200R                        | P60        | RDS        | 790            | Michell Orbe SE                 |
| TAG McLaren T20                   | P39        |            | 1,099          | Michell Orbe                    |
| Teac T-R400                       | P40        |            | 100            | N'ham Spacede                   |
| Teac T-R460<br>Teac T-H500        | P40        | RDS        | 120            | N'ham HyperSp                   |
| Technics ST-GT350L                | P30        | RDS        | 170            | N'ham Mentor<br>N'ham Anna Lo   |
| Technics ST-GT550L                | P30<br>P39 | RDS        | 180            | Oracle Delphi                   |
| Technics ST-GT650L                | P39        |            | 230            | Oracle Delphi 1                 |
| Thorens TRT-2000                  | P50        | RDS        | 499            | Pink Triangle Ta                |
| Thule Spirit TU100                | P40        | RDS        | 499            | Pro-Ject Perspec                |
| Yamaha TX-480L                    | P40        |            | 100            | Rega P25                        |
| Yamaha TX-492RDS                  | P40        | <b>RDS</b> | 130            | Rega Planar 9                   |
| Yamaha TX-59 2RDS                 | P40        | RDS        | 180            | Reson RS1M                      |
| Yamaha RX-396RDS                  | P40        | RDS        | 250            | Reson Rota 1                    |
| YBA Complete                      | P14        |            | 490            | Rockport Capella                |

|            | 5,590          |
|------------|----------------|
| RDS        | 130            |
| RDS        | 150            |
| RDS        | 200            |
| KDS        | 1,395          |
|            | 150            |
| RDS        | 200            |
| RDS        | 130            |
| RDS        | 180            |
|            | 775            |
|            | 400            |
|            | 795            |
|            | 1,250          |
|            | 4,990          |
| RDS        | 120            |
| RDS        | 600            |
|            | 2,499<br>4,999 |
|            | 6,999          |
|            | 695            |
|            | 300            |
|            | 400            |
|            | 600            |
|            | 190            |
| RDS        | 250            |
| RDS        |                |
|            | 270<br>330     |
|            | 615            |
|            | 1,130          |
| RDS        | 180            |
| ND3        | 230            |
| RDS        | 260            |
| RDS        | 140            |
| RDS        | 250            |
| RDS        | 700            |
| RDS        | 700            |
|            | 298            |
| RDS        | 375            |
|            | 695            |
|            | 200            |
|            | 100            |
| RDS        | 110            |
| RDS        | 140            |
| RDS        | 180            |
| RDS<br>RDS | 250            |
| RDS        | 790            |
| ND3        | 1,099          |
|            | 100            |
| RDS        | 120            |
| RDS        | 170            |
| RDS        | 180            |
| RDS        | 230            |
| RDS        | 499            |
| RDS        | 499            |
|            | 100            |
| RDS<br>RDS | 130<br>180     |
| RDS        | 250            |
|            | 490            |
|            |                |
|            |                |
|            |                |

| Pro-Ject (J/S10) Pro-Ject Classic/510 Pro-Ject Classic/510 Pro-Ject 6/510 Pro-Ject 6/510 Pro-Ject 6.9 Rega Planar 78 Rega Planar 2 Rega Planar 2 Rega Planar 3 Roksan Radius Shenwood PM8550 Sony PS-LX150H Sony PS-LX300H Technics SL-BD20 Technics SL-BD20 Technics SL-BD20 Technics SL-BD22 Technics SL-1210MkII Technics SL-BD22 Technics SL-1210MkII Thorens TD-180 AT91 Thorens TD-166 VI/UK/RB OVER £500 | 0  |   | 200<br>250<br>360<br>400<br>500<br>214<br>274<br>470<br>160<br>90<br>150<br>120<br>160<br>180<br>400<br>210<br>230<br>370<br>400                               |
|--|--|---|--|
| Audio Note AN-TT 2 Audio Note AN-TT 3 Audiomeca Romance Audiomeca J1 Avid Volvere Avd Acutus Basis 2000 Basis 2001 Basis Ovation II Basis 2500 Basis 2500 Basis Debut Gold Std III Basis Debut Gold Vacuum Chantry QT Level 2 Clearaudio Solution Clearaudio Revolution Clearaudio Revolution Clearaudio Revolution Clearaudio Reference Clearaudio Master Ref. DNM-Reson Rota 1   | ©1           ©1           ©1           ©1           ©1           ©1           ©1 | - | 995<br>1,995<br>1,895<br>3,500<br>1,399<br>3,995<br>5,400<br>5,495<br>7,495<br>8,200<br>10,300<br>705<br>2,500<br>3,835<br>8,510<br>3,900                      |
| DNM-Reson Rota 2 Garrard 501 Impulse Moskito Kuzma Stabi S Kuzma Stabi S Kuzma Stabi Keference Linn LP12 Lingo Michell Gyro Spider Ed'n Michell Gyro Spider Ed'n Michell Orbe SE Michell Orbe N'ham Spacedeck N'ham HyperSpacedeck N'ham Mentor N'ham Anna Log Oracle Delphi Oracle Delphi 15th Anniv Pink Trangle Tarantella II Pro-Ject Perspective  | <b>○</b> 1   |   | 5,600<br>5,278<br>695<br>695<br>1,950<br>3,750<br>1,100<br>1,7550<br>7755<br>875<br>1,725<br>1,500<br>2,600<br>5,500<br>3,370<br>3,800<br>850<br>750           |
| Rega P25 Rega P1anar 9 Reson R51M Reson Rota 1 Rockport Capella II Rockport Sirius III Roksan Xerxes 10 Roksan XMS SME Model 10A SME Model 10A SME Model 20/2 SME Model 30/2 SME Model 30/2 SME Model 30/2 SME Model 30/2 ST   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                    | - | 598<br>1,598<br>695<br>3,900<br>7,500<br>90,000<br>1,295<br>2,750<br>3,333<br>3,403<br>4,863<br>10,675<br>12,135<br>995<br>5,795<br>6,500<br>700<br>550<br>700 |

**⊙**† **₹** 200



### **TURNTABLES**

⊙ - Arm included, - Cartridge included.

|    |               | 349 |
|----|---------------|-----|
| 01 | -             | 140 |
| 01 |               | 220 |
| 01 |               | 330 |
| 01 | -             | 60  |
| Ot | -             | 70  |
| 01 |               | 100 |
|    |               | 455 |
| 01 |               | 199 |
| 01 |               | 279 |
| 01 |               | 329 |
| 01 |               | 220 |
|    |               | 500 |
| 01 | -             | 80  |
| 01 |               | 130 |
| 01 |               | 170 |
|    | তত্ত্ত তত্ত্ত |     |

2,250 4,350

3,500

5,500

01

Turn over for a full round-up of all reviewed products!

Thorens TD-520 SME Verdier Nouvelle Platine Verdier Platine Verdier

Well Tempered Classic V

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# 

## THE WORLD'S MOST COMPREHENSIVE HI-FI LISTING. PROBABLY.



## **Amplifiers**

he amplifier is at the heart of any hi-fi system, accepting the outputs from The amplifier is at the neart or any timi system, well-only and any various music sources, increasing the amplitude of their signal and then driving the loudspeakers to produce sound. One-box 'integrated' amps rule the roost at low-to-middle price points, but if you pay more, the low-level and highlevel signal processes are separated into preamp and power amp boxes, and even separate 'outboard' power supplies come into play. Another luxury is a separate amp for each stereo channel: such devices are known as monoblocks. Finally, output power and sound quality are not necessarily related. Some of e finest amplifiers outputs only 12 Watts, but will yield loudness aplenty when partnered with high-efficiency loudspeakers.

#### SPECIFICATIONS TO

LINE INPLITS: Number of input ockets for line-level (non-vinvl) sources such as CD players iners and cassette decks MM PHONO INPUT: An input

specially designed for moving nagnet (high output) phono

MC PHONO INPUT: An input for moving coil (low output)

REMOTE CONTROL: An infrared handset to adjust volume etc. HEADPHONE SOCKET: An integral output for headphones. POWER OUTPUT (Watts): Our measurement of an amp's RMS power output into 8 Ohms. **RECEIVER:** An amplifier with

FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback advert on the penultimate page of the mag ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

REST RIIV

RECOMMENDED

built-in radio receiver (tuner)

**EDITOR'S** 

# **Amplifiers**

HEADPHONE SOCKET MM PHONO INPUTS MC PHONO INPUTS POWER OUTPUT (W) REMOTE CONTROL FACTSBACK NO. ISSUE NUMBER RECEIVER Alchemist Kraken APD6A Compact, with Darth Vader styling, yet sound quality is meek and mild, despite strong midband dynamics 2150 175 Surprisingly potent and easy on the ear, if not especially analytical — classic bargain-basement material, in fact AMC 3025a 140 4 30 2045 171 a 0 AMC 3050a 170 Tremendous value for money, and a full, big, if rather uninformative sound 4 . 45 1970 167 Rather like an Alpha 7 but without the remote control and what app Arcam Alpha 7R Decent, if slightly system fussy amplifier that no longer pulls all the right strings 5 45 196 The Alpha 8R sets a high level of resolution and stability, and has some useful features for home cinema users a Arcam Alpha 8R 0 Arcam Alpha 9 500 Not quite a match for the Alpha 9/9P combo, the solo integrated is nevertheless colourful and explicitly detailed . 70 2007 168 0 Arcam Alpha 10 800 Although not the best sounding in its class, the Alpha 10's modular nature demands it be taken seriously 100 2318 181 An impressive sounding integrated amp with a dynamic, open and detailed F 1.000 Glamorously packaged valve amp produces a real eyes closed, feet up kind of sound 12 190 Aria S2 4 0 Superbly finished, the entry-level Audio Analogue performs way out of its class Audio Analogue Puccini SE 595 Upgraded, more powerful Puccini is disappointingly sluggish and curiously lacking in musical vitality 40 2314 181 Audiogram MB1 493 The only flaws are the amateurish build, a number of technical problems and inconsistent sound quality 40 2235 178 Fine, detailed amplifier with excellent timing and strong control of a wide range of loudspeaker loads O AVI S2000MI 999 100 175 Bryston B60R 1249 Great build, but the lazy bass and opaque treble bracket an articulate midband. Comes with 20 year guarantee 60 2156 175 Cambridge Audio A500RC Solid value, decent build and a surfeit of watts make this an attractive proposition, but it can sound slightly loose 2466 50 196 945 Sophisticated yet transparent, this is one of those amplifiers that sounds good even when the gloss has worn off 60 2010 168 a Copland CSA8 1 249 Elegant Scandinavian cool, abundantly detailed if somewhat system dependent a Copland CSA 28 60 2542 189 Copland CTA 402 1698 A unusually flexible valve amp with an attractive and textured sound 5 35 193 Solid and capable on paper, this is a bit of a blunt instrument when let loose on the music 2315 CR Developments CR324 569 150 181 Cymbol CA1 Lacklustre amplifier tends to underperform with complex material. Best with straightforward compact loudspeakers 40 178 Creek 4330 Diminutive but classy amp will drive anything, and can be specified in various configurations 40 2630 192 279 a Cyrus SI 398 Articulate amplifier with build quality to die for, superb, outgoing midband and lean but well-extended bass 50 168 Cyrus Illi 598 Beautifully presented, but mid-dominated balance was not liked. Upgradeable using PSX PSU unit 50 1854 162 G Cyrus 7 Welcome return to form for the Cyrus stable: this is the best sounding audio brick around 60 196 Denon PMA-250SE 140 This amp can sound rough when extended, but within its limits it is open, detailed and likeable 30 2046 171 0 Reinvented in the minimalist tradition this SE model is a control freak, but can sound wonderful a Denon PMA-350SF 180 50 1856 162 Denon PMA-535R 230 The kind of amp they made in the 70s, dressed to the nines, and nowhere to go 50 2627 192 Denon PMA-725R 350 Warm, bold, up-front presentation, but musically unexciting . 97 1802 157 O Denon PMA-1500R 500 Recommended for its outrageous power, especially with problem speakers 70 2316 181 High 'air guitar' factor, and can punch above its weight, but check it will complement your system Densen Beat B-100 Mkll 650 60 175 Densen DM-10 1 375 Big, bold and expressive amplifier, but sometimes rough around the edges, and not as powerful as it appears 75 2546 189 6 Edmund Audio ESI10 Honest but unexciting straight line amp from REL associate company 85 2635 192 Exposure XX Super 700 Rather transistorised, unexciting sound. Good coherence and rhythm. Best played loud 55 1743 154 6 Exposure RCXXV Unaccountably rather underwhelming top of the line integrated sounds a little soft and detached 1,000 60 2543 189 6 Electrocompaniet EC1-2 995 A 50 Watt amplifier which sounds more powerful, and makes 'real-sounding' music 50 2158 175 Harman/Kardon HK630 Sharp, clean but sometimes slightly raw-sounding budget amp 40 200 192 Harman/Kardon HK690 530 Bold, dynamic amplifier with plenty of balls, but not the most sophisticated sound on earth 100 Holfi Audis Signature 750 A 'no-feedback' circuit giving outstanding resolution, but significant load dependency 65 2319 181 Well-built and technically accomplished, affordable valve integrated with subtle refined, if not quite gripping sound 695 JoLida 202 40 2011 168 IVC AY-RS 200 Versatile, and lots of even-handed, articulate detail; but let down by superficiality 45 1466 149 Kenwood KAF-3010R 180 Plenty of twiddly bits yet weak on inputs, and basically good, but somewhat uneven sound quality . 70 2463 186 Kenwood KA-5090R 300 Large, well equipped and high tech integrated, but TRAITR output still gives a harsh, unsubtle performance 65 2053 171 Krell KAV-500i 5.000 More at home in background listening/home cinema applications than out-and-out audio maniac set-ups 250 192 Lundahl Mag Amp 1.735 Unusual valve/magnetic amp hybrid with relaxed balance and good timbre 23 196 0 Magnum IA120 Mirror finish amplifier with bold, colourful delivery, but needs careful system matching to avoid loss of clarity 65 2054 171 265 Gives a realistic sense of instruments playing within a very believable acoustic; preserves colour and dynamics 0 Magnum IA200 Sweet, valve-flavoured solid state amplifier which flatters where it doesn't cast light 160 1860 162 Magnum Class A SE 795 A MOSFET amplifier drawing inspiration from the world of valves, this is an erratically refined, detailed amplifier 80 175 2159 Marantz PM-6010SE 229 Good starter amplifier, with characteristic smooth, low key delivery . 50 196 It knows how to rock and roll with holographic detail and stereo, but prefers small/medium scale acoustic materia Marantz PM-17 900 Probably worth it for the WBT terminals and other build features alone, but this model doesn't sing as it should

| ٦         | CONTINUED                   |        |   | S           | P   | E C I      | FI             | C A           | TIC            | N :                    |                        |      |
|-----------|-----------------------------|--------|---|-------------|-----|------------|----------------|---------------|----------------|------------------------|------------------------|------|
| co lui co | Amp                         | li     | fiers   | MM PHONO II | PUT | EMOTE INPU | ADPHO<br>CONTA | OWER<br>NE SO | OUTPUT<br>CKET | FACTS<br>CEIVER<br>(W) | ISSUE NUME<br>BACK NO. | BER  |
| •         | PRODUCT                     | (£)    | COMMENTS  |             | V   |            |                |               |                |                        | V                      | 7    |
|           | Marantz PM-17 KI-Signature  | 1,300  | Full feature audiophile amp where the end results don't quite justify the fantastic ingredients               |             | 6   | •          | •              | •             |                | 60                     | 254                    | 14   |
|           | Monrio ASTY                 | 400    | Engaging, but ill-disciplined, even OTT amplifier with unpredictable system compatibility                     |             | 5   |            |                |               |                | 55                     | 223                    | 57   |
| Ì         | Musical Fidelity E1         | 199    | Richly flavoured tone and realistically-scaled imagery distinguish this entry-level Richer Sounds special     |             | 6   |            | 7/7            |               |                | 30                     | 205                    | 50   |
| Ì         | Musical Fidelity E11        | 299    | Well built minimalist amp with a 5 year guarantee, but can sound congested when extended                      |             | 6   |            |                |               |                | 60                     | 223                    | 52   |
|           | Musical Fidelity X-A1       | 479    | Idiosyncratic visuals just another plus for an amp that is powerful, well built, and serves the music sup     | erbly       | 6   | 100        |                |               |                | 50                     | 231                    | 7    |
|           | Musical Fidelity A3         | 849    | Similar to the XA-100R internally, and a little too relaxed for some  | ,           | 5   | •          | •              | •             | 30             | 85                     |                        |      |
|           | Musical Fidelity X-A100R    | 999    | Sings like a thoroughbred, but better with Mozart than Mötörhead  |             | 6   |            |                | •             |                | 75                     | 254                    | 15   |
|           | Myryad T-40                 | 400    | The T-40 is a well built and sensible, but needs more dynamics and finesse                                    |             | 6   | •          |                | •             | •              | 50                     | 263                    | 36   |
|           | Myryad MI120                | 600    | Well styled, well built: a good, even tempered amplifier, although it can sound rather brittle                |             | 6   |            |                | •             | •              | 60                     | 215                    | 2    |
|           | NAD 310                     | 100    | Fleet and sure of foot, it seems likely to set all appendages tapping with its blend of enthusiasm and a      | ertfulness  | 5   |            | 100            |               |                | 20                     | 146                    | 200  |
|           | NAD C320                    | 200    | Excellent budget amp from the maker of the seminal 3020 offers better clarity and neutrality and go           |             | 6   |            |                |               |                | 40                     | 246                    | -    |
|           | NAD C340                    | 270    | A classic NAD amplifier copes with any speaker, delivers plenty of power, and does so with calm de            |             | 6   |            |                | •             |                | 50                     | 263                    | 52   |
|           | NAD 317                     | 470    | Build quality aside, the current improved version is a real powerhouse, but smooth and detailed too           |             | 6   |            |                |               | •              | 80                     |                        |      |
|           | NAD \$300                   | 1,900  | Substantial integrated with loads of power and no shortage of finesse, slightly bass-strong                   |             | 5   |            |                |               |                | 100                    |                        |      |
|           | Naim Nait 3                 | 575    | Distinctive and highly musical sounding integrated amp. Perhaps too distinctive for some tastes               |             | 5   |            |                |               |                | 30                     | 174                    | -    |
|           | Naim Nait 3R                | 780    | Remote control variant of the basic Nait has a similarly dynamic credible sound but ultimately lacks          | power       | 5   |            |                |               | 100            | 30                     | 253                    | 222  |
|           | Pioneer A-300R              | 200    | Its bright and breezy sound is a natural tonic to those of us worn down by the ongoing stress of life         | ,           | 5   | •          |                |               | •              | 50                     | 146                    | -    |
|           | Pioneer A-407R              | 230    | Clean, consistent, finely detailed sound, good finish and (mainly) good build                                 |             | 5   | •          |                |               | •              | 45                     | 247                    | 100  |
|           | Pioneer A-607R              | 300    | Lively, articulate amp with plenty of drive and a hint of brightness  |             | 5   | •          |                |               | •              | 60                     | 263                    | -    |
|           | Pioneer A-300R Precision    | 400    | Sophisticated variant of the A-300R. Not an obvious winner, but will slowly plys you with its subtle cha      | arms        | 5   |            |                |               |                | 35                     | 186                    | -    |
|           | Pioneer A-07                | 999    | Curious blend of high-end attributes and inconsistent, though undeniably detailed sound                       | 311113      | 5   |            |                | •             |                | 80                     | 216                    | -    |
|           | Præcisa Acustica Sonoro     | 1,800  | It is not often that transistor amplifiers are made to sound so palpably valve-like                           |             | 5   |            |                |               |                | 100                    | 254                    |      |
|           | Primare A-20 Mk II          | 799    | Everything except packaging has changed in Mk II version: but ballsier model has lost none of its refin       | nement      | 5   |            |                |               |                | 70                     | 232                    | -    |
|           | Primare A30.1               | 1,499  | Superb build and aesthetics, and undemonstrably musical down to its smallest screw                            | iciticit    | 6   |            |                |               | 1000           | 100                    | 254                    | 100  |
|           | Rega Elex                   | 398    | Minimalist amplifier, derived from Elicit, is a little uninspiring, although at least it is well behaved      |             | 4   | •          |                |               |                | 50                     | 186                    | 1000 |
|           | Restek Fantasy II           | 1499   | Muscular, but ultimately rather strident amplifier which needs careful system matching                        |             | 6   |            | +              |               | -              | 100                    | 254                    | -    |
|           | Roksan Caspian              | 695    | Well-built, open and articulate amplifier, which is also consistent from system to system                     |             | 6   |            |                |               |                | 70                     | 201                    | -    |
|           | Rose Scion                  | 615    | Unique two-box integrated gives real subtlety and low level resolution, but the sound lacks scale and         | weight      | 5   |            | •              |               |                | 65                     | 200                    | -    |
|           | Rotel RA-931                | 150    | Rather dry and unforgiving sound from this internally well specified and attractively priced amplifier        | WCIGIII     | 4   | •          |                |               | •              | 35                     | 204                    | -    |
|           | Rotel RA-971 MkII           | 225    |   |             | 6   |            |                | -             |                | 60                     | 204                    | +0   |
|           | Sony TA-FB730R              |        | Improved AR971 is a chip off the old block: bags of power, but with added precision and clarity               | oosn't holo | 5   | •          | -              |               | •              | -                      |                        | -    |
|           |                             | 200    | Brilliantly sharp and realistic sound is offset by some obvious sonic flaws – and maxi feature set do         |             |     | -          |                | -             | -              | 40                     | 201                    |      |
|           | Sony TA-F448BE              | 250    | Minimalist interface is matched to carefully considered circuit with satisfactory effect — but keep the volum |             | 5   | •          |                |               |                | 55                     | 205                    | 77   |
|           | Sony TA-F3000ES             | 500    | Champagne 'shoebox amp' may lack power reserves, but is quick and articulate. In every sense a kno            | ockout      | 5   | 9          |                |               |                | 35                     | 223                    | 000  |
|           | T+A PA-1220R                | 1,445  | Unique presentation and feature set, but sometimes rather relentless sound quality                            | . 41 1      | 7   |            |                | -             | •              | 100                    | 255                    | 50   |
|           | Tact Millennium Mk II       | 7,000  | This digital class D amplifier represents a bold declaration on the future expansion of digital audio in      |             |     |            | -              | _             |                | 150                    |                        |      |
|           | TAG McLaren 60i             | 800    | Clean, slightly antiseptic sound from this beautifully turned out entry level Audiolab 8000LX replace         |             | 6   |            |                |               | •              | 60                     | 254                    | 40   |
|           | TAG McLaren 60iRv           | 999    | Looks, feels and sounds better than the Audiolab it supersedes. Smooth, open, refined but lacks body          |             | 6   |            |                | •             | •              | 60                     |                        |      |
|           | Talk Electronics Storm 1    | 500    | Good soundstaging and strong detail are provided by this unassuming and not especially powerful m             |             | 6   |            |                |               |                | 50                     | 186                    | 80   |
|           | Talk Electronics Cyclone 1  | 550    | Much improved build quality and silver finish, but the sound lacks physicality and can sound strain           | еа          | 6   |            |                |               |                | 65                     |                        |      |
|           | Talk Electronics Storm 2    | 650    | Crisp, clean, well defined sound, arguably lacking warmth, but a good midrange purchase overall               |             | 6   |            |                | •             |                | 50                     | 215                    | 54   |
|           | TEAC A-E2000                | 180    | Has the potential to cause significant damage in the budget amp sector once the wrinkles are irone            |             | 6   |            |                |               |                | 50                     |                        |      |
|           | Teac A-BX7R                 | 700    | Characterful balance mars a meticulously designed amplifier. Includes a balanced input, optional MM,          | /MC stage   | 5   |            |                | •             |                | 50                     | 186                    | 69   |
|           | Technics SU-A660 Mk 3       | 200    | Plenty of wellie for the price, but the sound can be a tad coarse and lacking in fine detail                  |             | 5   | •          |                |               | •              | 37                     |                        |      |
|           | Technics SU-A700 Mk 3       | 250    | Fully equipped, high-tech amplifier ultimately fails the authenticity test, and can sound messy and ina       | rticulate   | 5   | •          |                | 100           | •              | 45                     | 187                    | 70   |
|           | Technics SU-A808            | 300    | Intriguing amplifier, with abundant detail but dynamically rather flat  |             | 6   | •          |                |               | •              | 55                     |                        |      |
|           | Technics SU-A800D Mk 2      | 300    | Two-box amplifier looks great, has plenty of gadgets, and makes good, if slightly over-exuberant, must        |             | 5   | •          |                |               | •              | 55                     | 223                    | 34   |
|           | Technics SU-A900D Mk 2      | 400    | Looks like a pre/power amplifier, but in effect it's an integrated, with a rather soft-centred sound to m     | natch       | 5   | •          |                | •             | •              | 70                     | 214                    | 49   |
|           | Token Audio K50             | 350    | Stainless steel finish, others available. Sound is warm and attractive, though a little undynamic             |             | 5   |            |                |               |                | 50                     | 247                    | 72   |
|           | Yamaha AX-392               | 170    | Standard budget fare, and it's easy to pick holes, but in undemanding surroundings it works creditated        | ably        | 6   | •          |                | •             | •              | 60                     | 262                    | 29   |
|           | Yamaha AX-492               | 220    | Powerful, well equipped amplifier at an attractive price, offers powerful and engaging music-making           |             | 5   | •          |                | •             | •              | 85                     | 223                    | 31   |
|           | Yamaha AX-592               | 280    | Fine, middle ranking amplifier, with a detailed midband but performance declines at frequency extremes        |             | 5   | •          | •              |               | •              | 100                    | 205                    | 56   |
|           | PREAMPLIFIERS               |        |   |             |     |            |                |               |                |                        |                        |      |
|           | Amp Flux System 2           | 3,000  | Three-box affair with a clean, spacious sound and plenty of slam. A touch steely, but undeniably po           | otent       | 5   |            |                |               | •              | 50                     |                        |      |
|           | Alchemist Kraken APD7A Mkll | 549    | Unusual looks and unusual sound too, rather rough and lacking detail  |             | 6   |            |                |               |                |                        |                        |      |
|           | Arcam Alpha 9C              | 400    | Well specified and flexible preamp with sound only just lacking in greatness                                  |             | 6   |            | 177            |               | •              |                        |                        |      |
|           | Audio Note M Zero           | 299    | Neat shoe box-size preamp. Able to impart music with real life and soul when partnered with P Zero p          | ower amps   | 5   |            |                |               |                |                        |                        |      |
|           | Conland CTA-301Mkll         | 1 2/10 | Sweet counding but never rate board down in audio treads  |             | 1   |            | 6              | 100           |                | 1000                   | 163                    | 30   |



1,249 Sweet sounding, but never gets bogged down in audio treade

Copland CTA-301MklI

(CONTINUED)

## **OPERA MINI**

1630 151

Opera Mini may be the baby of the range but don't be fooled by the size. Standing a mere ten inches tall, this is a classy loudspeaker, made for people who love their music. And it sounds great virtually anywhere: on a bookshelf, or wall mounted, next to a TV screen, on stands, in fact wherever space allows.

The cabinet is solid hardwood – mahogany or cherry – built by Opera's craftsmen in the traditional manner. Top quality drive units and cabling are fitted, and even the terminals are Opera's own 24kt gold plated connectors, the same used on the most expensive models in the range.

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#### SPECIFICATIONS mplifiers MM PHONO INPUTS MC PHONO INPUTS HEADPHONE SOCKET POWER OUTPUT (W) REMOTE CONTROL FACTSBACK NO. LINE INPUTS RECEIVER Excellent sound, remote control operation and upgrade opi 187 Crimson CS610 Good, clear sound, including a decent phono stage, but flexibility is limited O Cvrus aCA7 A decent enough unit at the price but not as good as the Cyrus aPA7 power amp it was tested with 5 190 Densen Beat B-200 1,000 A versatile preamp with a high 'air-guitar' factor and Densen's characteristic styling 6 191 0 Wind up the volume and blow a breath of fresh music into your system. (Tested with Lectern power amp) Superbly rhythmical; maybe a bit overpowering in the midband. (Tested in sessions with XVIII Super) Exposure XVII 850 142 True high end preamplifier combines precision and warmth with unusual configurability E LFD Mistral Linestage 449 Strong ergonomics, generally decent sound, but a little lacking in detail 1930 6 165 Meridian 501 695 Tight, positive sound, but dispassionate; intense at high levels. (Tested with 555 power amp) 1303 145 Meridian 502 1.295 Extremely sophisticated analogue controller with tremendous flexibility and a fast and tidy presentation 162 Michell Orca Line-level design with a gorgeous remote and focused, spacious sound. (Tested with Alecto power amps) 187 6 Moth 30 Active Line Stage 349 Excellent-sounding ultra-simple miniature preamp 4 1931 165 Muse Model Three 1.990 Natural sounding tranny preamp with useful audiophile features. Works beautifully with 160 power amp 5 166 Musical Fidelity X-PRE 0 200 Cleverly configured preamp with many upgrade options, and open, lively and engaging sound 175 Musical Fidelity Nu-Vista 1295 Fully remote, nuvistor tube equipped, with fine coherence and musicality 182 NAD 114 270 Beer-budget preamp which sounds focused, detailed and consistent 1932 6 165 Upgradeable preamp uses proprietary socketry. (Tested with NAP90 power amp) Naim NAC92R 630 5 1936 165 NVA P50 350 Passive preamp that's more likely than most to cause treble loss 187 0 cated design with 2-way remote control console; open colourful sound and very flexible 998 Rega Hal Passive line stages dedicated to Exon power amps 1942 165 0 Low price is offset by rather coarse sound quality with certain types of music. (Tested with RB-971 power amp) Rotel RC-971 150 178 TAG McLaren PA20R 1.500 Refinement of Audiolab original with clean, detailed sound but limited thrill power. (T/w 125M monoblocks) 184 Talk Hurricane 2L Design of integrity which gets to the heart, if not the soul, of the music 1937 165 Technics SU-C3000 Price includes SE-A3000. Supremely clean and even sounding combo, though it could be more musically involving 2 997 188 Thule Spirit PR100 400 High-tech preamp slightly marred by tendency to veil the sound 187 **POWER AMPLIFIERS** 549 Alch. Kraken APD8A Mk II Unusual looks and unusual sound too, rather rough and lacking detail 55 187 400 Clear, colourful and well-disciplined, the Arcam is a strong all-rounder that can compete with conviction Arcam Alpha 10F 600 0 Well made and flexible: upgradeable to 3 channels. Good sound lacking the last degree of detail 100 187 Audio Note P Zero 599 Neat shoe box size valve monoblocks, priced per pair. Impart music with life and soul. (Tested with P Zero preamp) 8 191 Single ended valve power amp with passion, grace and fire, and plenty of grunt to boo Cary CAD 2A3SE 1,575 Monoblock valve power amp. Low power but gives delightful speed, coherence and transparency 5 196 Grown-up amplifier with a refined, yet never over-civilised air Copland CTA-505 2.099 67 1630 151 Well designed and built amplifier with plenty of power, detail and refinement Crimson CS630 Space-saving slimline monoblocks with both grunt and finesse 0 800 100 187 Crimson 6200 875 Not entirely satisfactory power amp which has dynamic strengths, but underachieves when the volume is raised 50 181 Cyrus Power Detail and midband clarity and stand-out qualities. Smooth and refined with most types of music but bass-soft 50 498 183 Cyrus aPA7 1896 Low feedback design that's a positive departure from the transistorised norm. (Tested with Cyrus aCA7 pre) 150 190 0 Densen B-300 800 Expensive but highly musical. Colourful and and warm sound with strong timing and listener involvement 100 183 ECA Lecteri 880 Tested with Vista. Wind up the volume and blow a breath of fresh music into your system 2.995 Single MOSFET pair per side gives tremendous resolution and timing (balanced only). Formerly Sirius E A mailed fist in a velvet glove; refined, authoritative and transparen 5 495 LFD Mistral Power 449 Infectious upper band vitality, but LF dynamics lacking - likewise 'grip' and transparency 60 165 1930 E Mana Stealth MA-1 4,800 A monoblock with an uncanny ability to drag you into the music, and spend half the night sitting up listening 200 198 750 By providing an open window on the music, this amp is wide open to RF and low level IM distortions Meridian 555 60 1303 145 Michell Alecto Monoblocks 1950 Hefty beasts offering real power and striking imaging. Not the last word in timing. (Tested with Orca preamp) 100 187 Moth 60 Watt Stereo 599 Miniature power amp lacks control and finesse – not comfortable with difficult speaker loads 60 1931 165 0 Tested with Active Preamp. Demonstrated solid balance and proved adept at delivering vital musical qualities Musical Fidelity X-A50 Cleverly configured and attractively packaged, open, lively and engaging sound. Reviewed with X-PRE 500 50 175 0 Musical Fidelity NuVista 300 3.300 Powerful smooth sound with tremendous bass extension. Capacity to fulfil the demands of the most dynamic material 350 199 Myryad MA120 Based on MI120 integrated – see latter for comments, but sounds significantly better when bi-amped with MI120 450 60 1935 165 NAD 214 370 A little lightweight, but detailed, consistent sound quality, and excellent value for money 80 1932 165 O Naim NAP90 450 Power amp from a Nait integrated with some improvements 30 1936 165 NVA A60 560 Rather coarse and uninviting sound 60 187 Technics SE-A3000 2 997 Price includes SU-C3000. Supremely clean and even sounding combo, though it could be more musically involving 100 188 Thule Spirit PA100 600 More successful than matching preamp: sound is gutsy and lively, and generally clean 100 187 Rega Exon 1.196 Monoblock, priced each, dedicated for Hal preamp. Bold, outgoing, in-command kind of sound 125 1942 165 0 Excels musically and in conventional hi-fi terms. A power amp for people with long-term satisfaction in mind 595 Rotel RB-971 200 Somewhat better than the accompanying preamp — clean, mean and bridgeable. (Tested with RC-971) 70 178 Rotel RB-980BX 450 Tames enthusiastically recorded material with a laid-back and occasionally smeared sound 120 155 TAG McLaren 125N 2.400 Refined Audiolab replacement monoblocks with clean sound but limited thrill power. (T/w PA20R preamp) 145 184 600 Talk Tornado 2 Good, but slightly retiring sound which lacks the authority to stand out in a crowd 65 1937 165 PHONO STAGE Creek OBH-9 160 A neat little unit with an essentially neutral and listenable character a 0 189 Cyrus aEQ7/PSX-R 826 Very hi-tech product which tends too much towards smoothness except at climaxes, which can be rough 0 189 Densen DP-Drive/DP-02 350 Quite unusual design in many ways: sound is mostly good but never quite shakes off a 'synthetic' quality 0 189 An excellent phono amp that combines well-rounded balance with detail and low noise Electrocompaniet ECP-1 0 495 0 189 Michell Iso/Lithos 599 With the Lithos power supply upgrade, the Iso is a very capable phono stage with just a hint of bass fullness 0 0 189 249 Fine sound all round, in any kind of music, from this bargain phono stage Musical Fidelity X-LP 130 A little bass lightness does not seriously mar the performance of this fine value unit O 189 40 A basic phono stage that does its job rather coarsely: a bit bass-shy too 189 QED Discsaver DS-1 0 35 It's cheap, it's cheerful, it's OK – perfectly adequate for use with a phono-less integrated, though not very refined 0 189 Roksan Artaxerxes X/DS1.5 1 150 Delicate and well balanced, slightly congested at climaxes. Power supply expensive, but runs two Roksan components 189 TAG McLaren PPA20 1549 One of the best-equipped phono stages available. Resolution is excellent, but timing is marginally behind the best 187 0 **MULTI-CHANNEL AMPLIFIERS** Arcam Alpha 10 DAVE/10F Packed with a diversity of electronics that against engineering odds sounds extremely good 2 500 198 O Denon AVR-3300 800 Not as powerful as Denon claims, but nonetheless capable of impressive high-fidelity multi-channel sound 4 • 75 198

500

Something of a rough diamond, but a powerful and entertaining package

#### MC PHONO INPUTS HEADPHONE SOCHET IN MM PHONO INPUTS FACTSBACK NO. LINE INPUTS RECEIVER **NAD T770** 1,000 Lacks both transparency and subtlety while the omission of dts will be a drawback for some at this price 198 Nakamichi AV-10 1,000 A very powerful AV receiver that's easy to install and set-up with a civilised and subtle performance 140 198 Pioneer VSX-908RDS 1,000 A flexible heavyweight AV receiver whose sound is just a little too stodgy and lacking in crispness 80 • 198 Roksan Caspian DSP 2,290 A potent combination offering the bare essentials of DD and dts decoding 130 198 Rotel RSP-985/RPB-985 Mkll 2,225 The hugely versatile processor is the weaker subjective link in this otherwise impressive combo 130 198 Sony TA-E9000ES/N9000ES 2,300 Big, gold, powerful and remarkably versatile but fails to cut the sonic mustard 198



## Cables

- ables are an integral part of a hi-fi system, required to connect source components to amplifiers, and the latter to speakers.
- Analogue Interconnects connect source components and amplifiers, and run between pre and power amps. They are priced for one-metre terminated pairs.
- Digital interconnects connect CD transports to DACs or digital recorders.
   They come in optical and electrical varieties, the former being made of plastic or glass. The prices shown are for a terminated linear metre.
- Speaker cables are used between the amplifier and speaker. Our prices are per unterminated metre. Termination (plugs and soldering) costs vary.

#### KEY TO SPECIFICATIONS

SYMMETRICAL: A twisted pair of conductors.
 COAXIAL: A central 'hot' conductor and a

- shield that carries the negative signal.

   STRANDED: Multiple strands with no
- SOLID CORE: Single or multiple, individually insulated strands.
- COPPER: Material used for conductor.
   SILVER: Material used for conductor.
- DIG CABLE TYPE: O optical digital;
  E electrical digital for CD Players, DACS and digital recorders.
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback ad on the penultimate page of the mag. ISSUE NUMBER: The issue of the Fi Choice in which an original review appeared.

(B) BEST BUY

intervening insulation.

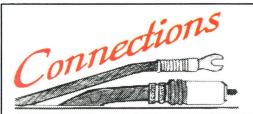
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E EDITOR'S CHOICE

# Cables

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| 2     | PRODUCT                    | (£) | COMMENTS  PRICES DED TERMINATED METRE PAIR  | V    |   | V  |     | <b>V V</b>  |       | V   |
|       | Acoustic Precision Eikos   | 89  | PRICES PER TERMINATED METRE PAIR)  Not entirely neutral: probably best suited to upbeat music. Very stiff construction  |      |   |    |     |   |       | 188 |
|       | Audio Note AN-A            | 18  | Not entirely freddal. probably best salted to upbeat music, very still construction.  Not especially impressive: warm but well-rounded balance that restricts 'air' but is quite clear. |      |   |    |     |   |       | 108 |
|       | Audio Note AN-C            | 35  | Neutral but lacking in subtle texture and unable to distinguish fine detail   |      |   |    |     | 1   | 687   | 131 |
| 0     | Audio Note AN-S            | 99  | Up-beat and enthusiastic sound with satisfyingly deep and grumbly bass  |      |   |    |     |   | 687   | 131 |
| w     | Audio Note AN-V            | 179 | 15 individually insulated silver strands make up this very clean and dynamically unchallenged cable   |      |   | •  |     | CONTRACTOR OF THE PARTY OF THE | 687   | 131 |
|       | Audioquest Topaz X2        | 60  | Well made but let down by a pervading sense of muddle and congestion in the sound   |      |   |    |     |   | 007   | 188 |
| 0     | CableTalk Advanced 2       | 35  | Slight roughness in loud music barely detracts from a well-balanced performance with good imaging   |      |   | •  | •   | 2   | 166   | 176 |
| 0     | Cable Talk Studio 2        | 65  | A first-class performer from tonal, dynamic and rhythmic standpoints  |      |   | •  | •   |   |       | 160 |
|       | Cambridge Pacific          | 30  | Lacks subtlety and bass impact but is otherwise guite serviceable for the price   |      | • | •  | •   | 2   | 167   | 176 |
| 0     | Cambridge Audio Studio Ref | 40  | Dynamic cable with strong soundstaging and only a slight lack of detail   |      | • | •  | •   |   |       | 160 |
|       | Cambridge Silver Spirit 60 | 100 | Good bass but a lack of detail and differentiation of instruments   |      |   | •  | •   |   |       | 188 |
|       | Chord Cobra 2              | 50  | Good, strong sound with full-bodied music, less happy with smaller forces   |      |   | •  | •   | 2   | 167   | 176 |
|       | Chord Chameleon 2          | 90  | Deep bass is fine but despite that the sound can be a bit hard and lacking body and resonance   | (    |   | •  | •   |   |       | 188 |
| 0     | Connections Midas HD       | 39  | Canary yellow cable with excellent plugs and an open sound. Slight treble glare   | (    |   | •  | •   |   |       | 160 |
| 0     | DNM TCC75                  | 34  | Price for 0.75m High resolution cable, but best in short runs due to higher than average series impedance   | te   |   |    |     | 1   | 690   | 131 |
|       | Goertz M1 Interconnect     | 145 | Soft sound lacking in bite, with excessive and plummy bass (NB sample used in review was only 0.5m)   |      |   |    | • • | 2   | 168   | 176 |
|       | Insert Audio IC100 MkII    | 47  | Mostly good sound is let down by pervasive dryness  |      |   | •  | •   | 2   | 169   | 176 |
| 0     | Ixos 104                   | 20  | Open and detailed presentation, full bass and silky if overly smooth treble   |      | • | •  | •   | 1   | 692   | 131 |
|       | lxos Gamma 1002            | 39  | Lumpy bass, grainy treble, and poor integration. Nice colour, though  |      |   | •  | •   | 2   | 169   | 176 |
| 0     | lxos 103                   | 45  | Even-handed and generous sound, bass has a well-rounded, bouncy quality   |      | • | •  | •   | 1   | 692   | 131 |
|       | lxos 102                   | 60  | A bit bright and undynamic, this cable is nevertheless a good all-rounder, whose faults are largely subtract  | tive | • | •  | •   |   |       | 160 |
|       | lxos 101                   | 100 | A cable with personality: its veiled and shut in quality bring an earthiness to vocals and rhythm guitar alike  | 9    | • | •  | •   | • 1   | 693   | 131 |
| 0     | Kimber PBJ                 | 68  | Assured sound, solid and natural bass and clear treble — excellent performance all round  |      |   | •  | •   |   |       | 188 |



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| Z          |   |               |   |             |      | 9      | - 3    | 9     |         | 1    |         | -                                      |              |
| 6          | PRODUCT<br>Kimber Hero                          | (E)           | COMMENTS  Slight roughness detracts from some music; seems well suited to rock and jazz. Lively and detailed  |             | •    | Y      |        | Y     |         | Y    |         | 2170                                   | 176          |
| 0          | Moth Ley Line Black                             | 100           | Offers a full sound, neutral yet very solid and confident in delivery. Expansive imaging retains music's  | s energy    | •    |        | •      |       | •       | •    |         |  | 108          |
|            | Moth Ley Line Grey                              | 200           | Detailed, but there's a sense of distance between music and listener: vocals are coarse rather than lice  | quid        | •    |        | •      |       | •       | •    |         |  | 108          |
|            | Nordost Black Knight                            | 60            | Flat black cable that is distinctive but slightly coloured – but not in a wholly negative manner  |             | •    |        | •      |       | •       |      |         |  | 160          |
| 0          | Nordost Solar Wind                              | 85            | Good tone and dynamics, with just occasionally a touch of bass-lightness in busy music  |             | •    |        |        | •     | •       |      |         |  | 188          |
| 0          | Nordost Blue Heaven Precious Metals SS35        | 145<br>50     | Very good bass and only slightly grainy treble add up to a well integrated, natural-sounding cable  Extended bass, but dry character suits electronic music better than acoustic  |             | •    | •      |        | •     | •       |      |         |  | 176<br>188   |
| 0          | Prowire Silver                                  | 60            | A good cable in every way, with just the occasional hint of coloration and coarseness   |             |      |        | •      | E N   |         | •    |         | 2171                                   | 176          |
| 0          | QED Qnect 2                                     | 30            | Very well balanced, refined and detailed, this is everything a good cable should be, and excellent value  | ue          |      |        |        |       | •       |      | -       | 2172                                   | 176          |
| 0          | QED Qnect 4S                                    | 70            | Some coloration and roughness in the midrange and treble, but bass is gratifyingly solid  |             | •    |        | •      |       | •       |      | -       |  | 188          |
|            | Reference CS1                                   | 75            | A moderate performer, with a little coloration and a tendency to lose bass at climaxes  |             | •    |        | •      |       | •       |      |         |  | 188          |
|            | Silvertone Ex-Static                            | 35            | Pleasantly unfatiguing and competitively priced cable that lacks detail and insight   |             |      | •      | •      |       | •       |      |         |  | 160          |
| 0          | SonicLink Silver Pink                           | 35            | Dynamically sensitive and muddle-free. We're unsure about the flesh-coloured finish though  |             | •    |        | •      |       |         | •    |         | 2172                                   | 160          |
| 0          | SonicLink Black SonicLink Lilac                 | 49<br>65      | Nickel-plated copper with a slight dryness in the bass and a hint of treble roll-off don't compromise in  | tegration   | •    |        | •      |       | •       |      |         | 2172                                   | 176<br>188   |
| 0          | Straight Wire Chorus                            | 40            | Some dryness can affect transient sounds, though tone is generally good, especially in the bass  A very confident cable with good bass, though perhaps a shade of treble loss   |             |      | •      |        |       | •       |      |         | 2173                                   | 176          |
| 0          | Straight Wire Sonata                            | 80            | Tonal balance favours lower frequencies but despite this it's a very listenable cable   |             |      | •      | •      | 1000  | •       |      |         | -175                                   | 188          |
| 0          | Supra EFF-ISL                                   | 80            | Excellent sound in all areas — nothing to criticise   |             | •    |        |        |       | •       |      |         |  | 188          |
| 0          | Tara Labs Prism 22                              | 64            | Mild tendency to plumminess offsets some hardness in complex music with mixed results   |             |      | •      |        | •     | •       |      |         | To h                                   | 188          |
|            | van den Hul The Storm                           | 25            | Price for 0.8m. Rich and warm but bass is rolled off: however there's plenty of drive and top end is c  | lean        |      | •      |        | •     | •       |      |         | 1701                                   | 131          |
| 0          | van den Hul Source HB                           | 50            | Price for 0.8m. Hybrid carbon-fibre/copper cable that is a paragon of naturalness   |             |      | •      | •      |       | •       |      |         |  | 160          |
| 0          | van den Hul PB5                                 | 50            | A highly neutral cable with fine dynamic and rhythmic performance too — excellent   |             |      | •      |        |       | •       |      |         | 177                                    | 188          |
| 0          | van den Hul D102 MkIII<br>van den Hul The First | 70<br>210     | A cable with everything; good bass, treble, imaging and naturalness Using 12,000 carbon fibres, a gentle and subtle sounding cable that conveys oodles of information   |             |      |        |        |       | •       |      |         | 2173<br>1702                           | 176<br>131   |
| 6          | van den Hul The Second                          | 240           | Wonderfully open and relaxing but also intimately detailed, slightly softens percussive dynamics  |             | •    |        | •      |       | •       | •    |         | 1702                                   | 131          |
| ۳          |   |               | CES PER TERMINATED LINEAR METRE)  |             |      | 2.3    |        | 3.00  |         |      |         | ., 02                                  | 101          |
|            | Audioquest Digital Pro                          | 100           | A silver cable with all the drive of Video Z but lacking its clear-cut transparency   |             |      | •      | •      |       |         |      | E       |  | 108          |
|            | Chord Codac                                     | 36            | A connection with a stranded inner core and a sound that lacks integration  |             |      | •      | •      |       |         | •    | E       |  | 108          |
| 0          | Chord Prodac                                    | 50            | Price for 0.6m length. Lively detailed treble, drives music along confidently with no hint of fizz  |             |      | •      |        | •     | •       |      |         | 1706                                   | 131          |
| 0          | lxos 105  | 25            | Extended but soft-edged treble that's mercifully free of fatiguing colorations; plenty of weight, smooth  | h           |      | •      |        | •     | •       |      |         | 1707                                   | 131          |
| 0          | Kimber Kable Opti-link  Moth Leyline Datalink   | 50<br>140     | Appears to be a bog-standard PMNA fibre, yet sounds a little brighter and livelier than most  A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive  |             |      |        |        |       |         |      | O<br>E  |  | 108          |
| 0          | QED Digiflex                                    | 20            | A top performance, low-loss 75 Ohm coax with a very open, almost liquid quality   |             |      | •      |        |       | •       |      | E       |  | 108          |
| ١          | Siltech HF-6                                    | 145           | Sounds detailed, very clean and extended, but bass is less well resolved — a treat for high-end system  | ns          | •    |        | •      |       | •       | Su a | -       | 1709                                   | 131          |
| 0          | SonicLink Green                                 | 60            | Spacious, positive and engaging if a bit over-crisp at times — very compelling, however   |             |      | •      | To the | •     | •       | •    |         | 1709                                   | 131          |
| 0          | van den Hul The First                           | 125           | Exceptionally natural albeit slightly cautious compared to some. Plenty of subtle information and inte  | gration     |      | •      | •      |       |         |      | E       | 1710                                   | 131          |
|            | LOUDSPEAKER CABLES (                            |               |   |             |      |        |        | 0.000 |         |      |         |  |              |
|            | ALR Jordan QMM                                  | 5             | Generally neutral, if sometimes bass-shy, but not very communicative  | famuard     | •    |        | •      |       |         | •    |         |  | 183          |
|            | Audio Note AN-D<br>Audio Note AN-B              | 4.50<br>16.50 |   | iorward     |      |        |        |       |         |      |         | 1711                                   | 109          |
| <b>6</b>   | Audio Note AN-L                                 | _             | Fruity bass and expressive vocal rendition was appreciated by the panel, which was happy to accept i  | its foibles | •    |        |        | •     |         | •    |         | 1712                                   | 133          |
| 0          | Audio Note AN-SP                                | 150           | A calm and civilised presentation, very quiet in the way it reveals subtle low level detail. Great poise ar   |             | •    |        |        | •     |         | •    |         |  | 109          |
| 0          | Audioquest F-14                                 | 2.2           | Ideal for laying under carpets. F-14 encourages a slightly warm and vibrant sound   |             |      |        |        | •     | •       |      |         |  | 109          |
|            | Audioquest F-18                                 | 3.60          | Slightly lumpy bass and lack of midrange detail: can also be a bit dry  |             | •    |        |        | •     | •       |      |         |  | 192          |
|            | Audioquest Type 4                               | 5             | Four 18-gauge OFHC copper conductors wound in a Litz-type fashion increases capacitance but restr   | ains 'bite' | •    |        | •      |       | •       |      |         |  | 109          |
|            | Audioquest Type 6                               | 9             | A very inflexible cable in which the sonic ends don't quite justify the means   |             | •    |        |        | •     | •       |      |         | 1000                                   | 183          |
| <b>B</b>   | Bandridge LC7409  Cable Talk Talk 3.1           | 2.25          | Detailed and up-beat cable. A bit too steely for classical strings  Quite well-balanced but tends to lose bass lines in complex music   |             | •    |        |        | 100   | •       |      |         | 1800                                   | 157<br>168   |
| ۳          | Cable Talk Talk 4.1                             | 4.25          | Smooth and cultured sound that lacks fine detail and is a bit too restrained  |             |      |        | •      |       | •       |      |         | 1800                                   | 157          |
|            | Cable Talk Concert 2.1                          | 8             | Can make stereo images recede, and favours the upper bass   |             | •    |        | •      |       | •       |      | 100     |  | 192          |
|            | DNM LSC350                                      | 6.95          | Majors on midband and lower treble lucidity at the expense of bass and extreme treble extension   |             | •    |        |        | •     | •       | 100  |         |  | 168          |
| 0          | Chord Company Odyssey                           | 17            | Relatively vice-free cable with good detail throughout the range and generally neutral bass   |             | •    |        | •      |       | •       |      |         |  | 192          |
| 0          | DNM LSCB500                                     | 12            | High impedance can influence the treble response, but this was a winner on sound per pound. Bi-wi<br>Unflappable resolution of musical details. No dampening of dynamics, simply oodles of taut informat  |             |      |        |        | •     | •       |      |         | 1716                                   | 133          |
| 0          | DPA Black Sixteen  Gale XL189                   | 100           | Slightly bright and not too subtle, but a perfectly acceptable cable for any starter system   | uon         | •    |        |        |       | •       | •    |         | 1717                                   | 133<br>168   |
| 0          | Gale XL315                                      | 2             | A little lacking in detail but plenty of life and excellent value   |             |      |        | •      |       | •       |      |         | 1800                                   | 157          |
| 0          | Gale XL160-2                                    | 2.50          | Rhythmic and bouncy-sounding bi-wire cable. Can be slightly manipulative  |             |      |        | •      |       | •       |      |         | 1800                                   | 157          |
| 0          | Goertz M2                                       | 32            | Remarkably detailed, smooth, neutral and with excellent bass, check amplifier compatibility   |             | •    |        |        | •     | •       |      |         |  | 168          |
| 0          | Hitachi LC-OFC                                  | 7             | Very crisp, very clear and very confident. In the right system would be very expensive to better  |             | •    |        | •      |       | •       |      |         |  | 109          |
| 0          | Ixos Gamma 6006                                 | 5             | Bass is better than treble, which can become spitty and sibilant – though only slightly   |             | •    |        | •      |       | •       | -    |         |  | 192          |
| 0          |   |               | Considering the price, this cable's very slight dryness is forgivable when everything else is so right     A well-balanced cable with good performance in all areas   |             |      | •      |        | •     |         |      |         | 10-11                                  | 192          |
| 0          | Kimber 4TC<br>Kimber 4VS                        | 19.6          | A well-balanced cable with good performance in all areas  A good mix of virtues including particularly fine bass  |             | •    |        | •      |       | •       | Year |         |  | 168<br>183   |
| 0          | Linn K20  | 4             | Seems to work best with lively, unsubtle music – can be dry and edgy  |             | •    |        | •      |       | •       |      |         |  | 183          |
|            | Naim NAC A5                                     | 5.5           | A 'dinosaur of a cable', this stiff wire rod doesn't belong outside Naim systems, where it works a treat  | at          |      | Page 1 | •      | R     | •       |      |         |  | 109          |
|            | Nordost Octava                                  | 3             | Fair bass but confused treble and some coloration   |             | •    |        |        | •     | •       |      |         |  | 168          |
|            | Nordost Flatline Gold II                        | 9.50          | Exciting sound but a bit too 'in-yer-face', and bass is not always even   |             | •    |        |        | •     | •       |      |         |  | 192          |
|            | Ortofon SPK100                                  | 3             | Grey-sounding – strips instruments of their natural richness and resonance. A bit bass-shy, too   |             |      |        | •      | Mo    | •       |      |         |  | 133          |
| 0          | Ortofon SPK200                                  | 4.99          | Good strong bass and fair detail, only slightly marred by a little dryness  |             | •    |        | •      |       | •       |      |         |  | 183          |
| 0          | Ortofon SPK300<br>Precious Metals SL102         | 10            | Tremendously open and atmospheric, with robust, full-blooded bass — if slightly bright at times  Unusual construction gives rather strained sound, only really cheering up with simple musical texture  | ıs          | •    |        | •      |       |         |      |         |  | 133          |
|            |   |               | and a second of the second of |             |      |        |        | 1     | 100     |      |         | 100                                    | 100          |

|        | CONTINUED                  |              |   |                |     | 16071        | . N. C  |              | CONTRACTOR OF STREET |
|--------|----------------------------|--------------|---|----------------|-----|--------------|---------|--------------|----------------------|
| STATUS | Cabl                       | e            |   | - O - O -      | (D) | COPPER SHVER | FACTS B | ISSUE NUMBER | <sup>T</sup> R       |
| S      | PRODUCT Puresonic 7845     | ( <b>£</b> ) | COMMENTS Big, weighty sound — but too messy and bloated for its own good                        |                | V   | V            | V       | V            | 183                  |
|        | Puresonic 7891             | 2.85         | Chunky cable design; shame about the sound quality  |                |     |              |         | 1800         | 157                  |
|        | QED Qudos                  | 2.25         | Despite high-tech design and excellent Air-Loc plugs, its music-making failed to gel            |                |     |              |         | 1800         | 157                  |
|        | QED Profile 4x4            | 9            | Good midrange and treble balance, but bass is rather slack and detail not outstanding           |                |     |              |         |              | 168                  |
| 0      | QED Qudos Silver           | 5            | A few minor flaws but overall performance is very assured for this price                        |                | •   |              |         |              | 192                  |
|        | SonicLink S300             | 18           | Happiest with simple music; tends to smudge detail in complex pieces                            |                | •   | • •          |         |              | 168                  |
| 0      | SonicLink AST50            | 1.95         | It may look like bell-wire, but AST50 sounds detailed, ordered and balanced                     |                |     | •            |         | 1800         | 157                  |
| 0      | SonicLink AST150           | 3.95         | Slightly plummy bass and a useful way of holding musical strands together                       |                |     | • •          |         | 1800         | 157                  |
|        | Sonic Link AST200x2        | 5.95         | At its best with exciting music, this cable seems shy of subtler details                        |                | •   | • •          |         |              | 192                  |
|        | Straight Wire Rhythm       | 6            | Its major flaw seems to be woolly and indistinct bass, which pervades most types of music       |                | •   | • •          |         |              | 192                  |
| 0      | Straight Wire Quartet      | 8            | A good all-rounder with full tone, clear detail and natural ambience                            |                | •   | • •          |         |              | 183                  |
| 0      | Supra Ply 3.4              | 6.95         | Clean sound which stays together well at high levels, with full bass – perhaps a touch of treb  | le restriction | •   | •            |         |              | 183                  |
| 0      | Tara Labs Klara            | 2.95         | A good budget cable with an even spread of virtues – and very minor vices – across the boa      | rd             | •   | • •          |         |              | 183                  |
| 1      | van den Hul Gold Water     | 7            | Bass becomes shy when there's a lot happening, and detail could be clearer                      |                | •   | • •          |         |              | 183                  |
|        | van den Hul The Clearwater | 7            | Despite its evocative title, the Clearwater turns out to be a disappointingly murky-sounding co | able           |     | • •          | •       |              | 109                  |
|        | van den Hul CS122          | 12           | Good dynamics can make for exciting sound, but fine detail suffers and the treble is often dr   | У              | •   | • •          |         |              | 192                  |
|        | van den Hul The Magnum     | 38           | Touted as vdH's most prestigious twin-lead cable, The Magnum sounds soft and old-fashione       | ·d             |     | • •          | •       |              | 109                  |
| 0      | van den Hul The Wind       | 40           | 'The Wind' kicks up a storm with its lush midrange and bone-crunching bass                      |                |     | •            | •       |              | 109                  |
|        | van den Hul Revolution     | 76           | Silver-plated OFC combined with carbon fibre prompts a sombre character with an easy and        | relaxed treble |     | •            | •       | 1726         | 133                  |



# Cartridges

artidges fall into two groups high output MM (moving magnet) models, capable of working directly into most phono inputs; and generally more expensive low- and very-low-output MC (moving coil) models. MC cartidges usually have better mechanical integrity, tighter tolerances and give better performance. Many amplifiers are no longer equipped with the necessary phono input for a cartidge, and a separate phono stage is necessary. Prono-input-equipped valve amps need a transformer to cope-with MC cartidges.

Leven basic high-output MM cartidge designs will benefit from a customised amplifier input load. Consult your dealer for further details on this topic.

#### KEY TO SPECIFICATIONS

- MM: Moving-magnet cartridge with a normal output, suitable for all amplifier phono inputs.
- MC: Moving-coil cartridge with a low output, only suitable for high-sensitivity MC amplifier phono inputs
- REPLACEABLE STYLUS: Most MM cartridges have a stylus (needle) that can be removed and replaced when worn out.
- OUTPUT (mV): Cartridge output in millivolts.
   MASS (g): The mass of your chosen cartridge
- dealers or manufacturers to establish which arms and pickups work well together.
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback ad on the penultimate page of the mag.
- ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

1 BEST BUY

RECOMMENDED

E EDITOR'S CHOICE

# Cartridges

SPECIFICATIONS

REPLACEABLE STYLUS

MM MC CABLE STYLUS

MM MC CABL

| ATU | OCCIT O                   |       | usos   |     | 11. | TYLUS | (8)  | CKN  | O. MBE | R   |
|-----|---------------------------|-------|--|-----|-----|-------|------|------|--------|-----|
| 15  | PRODUCT                   | (£)   | COMMENTS   |     |     | V     | V    | V    | V      | V   |
| 0   | Audio Technica AT-95E     | 20    | Clear and dynamic, though richly balanced  | •   |     | •     | 2.8  |      |        | 48  |
|     | Audio Technica AT-OC9ML   | 330   | A well-finished cartridge with a sound that's smoothly detailed, but also rather unexciting                          |     | •   |       | 0.4  | 8    |        | 192 |
| 0   | Clearaudio Signature      | 1,495 | A great all-round performer with fine dynamic vitality and a seductive midband intimacy                              |     |     |       | 0.55 | 11.5 | 2142   | 175 |
| 0   | Denon DL110               | 70    | A fine all-rounder, this high output MC model is likely to perform well  |     |     |       | 1.0  | 6    |        | 48  |
|     | Denon DL160               | 90    | Although listeners just preferred the 110, its brother here survived lab tests and is still 'thoroughly competent'   |     |     |       | 0.1  | 6    |        | 43  |
|     | Denon DL103               | 100   | Good performance in bass and good 'life'. Is seriously let down by its spherical stylus which kills subtle detail    |     |     |       | 0.1  | 6    |        | 103 |
| 0   | Denon DL304               | 200   | Uncoloured, detailed, tracks superbly. Top notch altogether, and a bargain at the price                              |     |     |       |      |      |        | 103 |
| 0   | Dynavector DV-20X L       | 299   | Articulate-sounding, with impressive treble resolve, though lightweight at times. Needs a high quality turntable and | arm |     |       | 0.25 | 8.6  |        | 192 |
|     | Dynavector Karat 17D2 mk2 | 450   | Clean and controlled sound with taut, tuneful bass. Detailed and musically cogent                                    |     |     |       | 0.15 | 5.3  |        | 158 |
| 0   | Dynavector Te-Kaitora     | 1,698 | A real smoothie, but pricey. Worth checking out for its delicate laid-back transparency and low needle-talk          |     |     |       | 0.25 | 8.5  | 2142   | 175 |
| 0   | Dynavector XX-1L          | 998   | Very clear, very detailed; a response lift around 20kHz seems to do no harm  |     | •   |       | 0.25 | 12   |        | 84  |
|     | Dynavector XX-1           | 998   | Good, but not immensely competitive at the price, and not helped by comparison with the low output version           |     | •   |       | 2.0  | 12   |        | 84  |
| 0   | Goldring Elan             | 19    | A lightweight and frisky-sounding MM apparently based on Nagaoka MM4 body  | •   |     | •     | 5.0  | 7    |        | 67  |
| 0   | Goldring 1012GX           | 79    | Slightly harsh but plenty of life and detail. Some high frequency coloration apparent                                | •   |     | •     | 6.5  | 7    |        | 85  |
| 0   | Goldring 1022GX           | 99    | As with 1012, a touch harsh; detail and transient purity improved  | •   |     | •     | 6.5  | 7    |        | 85  |
| 0   | Goldring Eroica LX        | 110   | Not the most subtle cartridge in the world: can sound edgy at times, but lively and informative                      |     | •   |       | 0.5  | 8    |        | 84  |
|     | Goldring 1042             | 120   | Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively, though                           | •   |     | •     | 6.5  | 6    |        | 91  |
|     | Goldring Elite            | 220   | The basics are right, and it will cheerfully tackle any source material, but its sound is not the cleanest           |     | •   |       | 0.5  | 8    |        | 103 |
|     | Goldring Excel VX         | 525   | Good bass drive but dull and imprecise higher up. An old-fashioned sound that falls short of the true high end       |     | •   |       | 0.45 | 8    | 2143   | 175 |
| 0   | Grado Prestige Gold       | 149   | Rich sounding with an unusually refined top-end for a moving magnet-type cartridge                                   |     |     |       | 4    | 6    |        | 158 |
| 1   | Grado Reference           | 995   | Loads of tracking headroom but treble is limited. A prospect for mid-oriented valve amp users                        | •   |     |       | 1.7  | 6.5  | 2143   | 175 |
| 0   | Linn K9                   | 125   | Linn improved this model by beefing up the Basik's bodywork and adding a super stylus                                | •   |     | •     | 4.5  | 5    |        | Col |
|     | London Decca Maroon       | 259   | Now manufactured under the London brand name, this Decca cartridge is as iconoclastic as ever                        | •   |     |       | 5.0  | 6    |        | 67  |
|     | London Decca S Gold       | 399   | Immediate and detailed, but coloured and nonlinear, with a questionable effect on records                            | •   |     |       | 5.0  | 6    |        | 84  |
| 0   | Lyra Lydian Beta          | 599   | A thoroughly enjoyable cartridge – smooth, agile and dynamic in character  |     | •   | )     | 0.5  | 8    |        | 192 |
| 0   | Lyra Lydian               | 649   | Superbly capable all-round musical performer that improves markedly when its body cover is removed                   |     | •   | )     | 0.3  | 7    |        | 158 |
| 0   | Lyra Clavis Da Capo       | 995   | A stable tracker, and one of the finest cartridges we've heard   |     | •   |       | 0.1  | 7    |        | 143 |
|     | Lyra Parnassus D.C.t      | 1,895 | A real little jewel of a cartridge, with many good qualities, but handicapped by a rather too obvious treble peak    |     | •   | )     | 0.22 | 10.5 | 2144   | 175 |
| 0   | Ortofon 510/P             | 38    | For the price, a good blend of virtues – weight, clarity and neutrality  |     |     |       | 3.0  | 5    | 1      | 85  |
| 0   | Ortofon 520/P             | 65    | Sensitive to load capacitance, but the 520/P has a lively, effervescent sound  | •   |     | •     | 3.0  | 5    |        | 67  |

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Cartridges

MEPLACEABLE STYLUS

| STA |                              |       |   | - | -0 | -3 | 100  |      | -    |     |
|-----|------------------------------|-------|---|---|----|----|------|------|------|-----|
| 8   | PRODUCT                      | (£)   | COMMENTS  | V |    | V  | •    |      | V    |     |
| 0   | Ortofon MC3 Turbo            | 130   | The 3 Turbo is bright, cheerful and bouncy, but unsubtle – take it as it comes                                      |   | •  |    | 3.3  | 4    |      | 103 |
| 0   | Ortofon MC15 Super II        | 130   | A good all-rounder, with outstanding resolution, if slightly bright and close up                                    |   |    |    | 0.35 | 7    |      | 103 |
| 1   | Ortofon MC25E                | 180   | An excellent upgrade for a mid-price turntable  |   | •  |    | 0.5  | 11   |      | 139 |
|     | Ortofon MC25FL               | 250   | A bit too stark and honest, but faithful to what's on the LP  |   | •  |    | 0.5  | 11   |      | 139 |
| 0   | Ortofon MC 10 Supreme        | 300   | A full and cultured-sounding cartridge, with collective attributes far outweighing its shortcomings                 |   |    |    | 0.5  | 10.7 |      | 192 |
|     | Ortofon MC30 Supreme         | 525   | Highly detailed and even-sounding cartridge that has a special affinity with female vocal recordings                |   | •  |    | 0.5  | 10.7 |      | 158 |
| 0   | Ortofon Rohmann              | 1,000 | A class act in nearly every respect, with fine groove security and a very smooth and even-handed sound              |   |    |    | 0.25 | 8.5  | 2144 | 175 |
| 0   | Ortofon MC3000II             | 1,100 | A real ear-opener. Nothing to criticise anywhere — one of the very best   |   | •  |    | 0.12 | 10   |      | 84  |
| 1   | Ortofon MC5000               | 1,500 | Limited tracking ability, bright and forward sound, but good stereo   |   | •  |    | 0.12 | 10   |      | 91  |
|     | Rega Bias                    | 39    | Difficult to mount in some arms due to its shallow body, but the Bias offers a gentle, refined sound                | • |    | •  | 5    | 4    |      | 67  |
| 0   | Rega Elys                    | 85    | Clearly superior to the Bias, the Elys is more detailed, accurate and convincing                                    | • |    | •  | 5.0  | 5    |      | 67  |
| 0   | Reson Reca                   | 250   | If you're after a high quality moving magnet cartridge, they don't get much better than this                        | • |    | •  | 6.5  | 6.3  |      | 192 |
| 0   | Roksan Corus Black           | 130   | Recognisably related to the Corus Blue, but smoother and more civilised   | • |    | •  | 6.5  | 5    |      | 91  |
| 0   | Sumiko Blue Point Special    | 250   | A no-nonsense performer with engaging musical properties – one of the best around for less than £300                |   | •  |    | 2.5  | 9    |      | 192 |
| 0   | van den Hul MM-1             | 250   | If woody midrange could be tamed, imaging and security would pull it through  | • |    | •  | 5.5  | 6    |      | 103 |
| 1   | van den Hul DDT-II           | 600   | Outstanding stereo imaging and neutral balance are appealing, but rhythmically the DDT-II is a bit lazy             |   | •  |    | 0.35 | 7.6  |      | 158 |
| 0   | van den Hul MC-10            | 750   | A neutral, balanced performer, gives fine depth and focus and a firm, extended bass                                 |   | •  |    | 0.4  | 6    |      | 60  |
| 0   | van den Hul MC-One           | 900   | This extends all the positive qualities of the 10, but adds greater authority and scale – worth all the extra money |   | •  |    | 0.4  | 6    |      | 60  |
| 0   | van den Hul MC-Two           | 1,200 | MC-Two rewards with a highly detailed yet fluid and musically convincing portrayal                                  |   | •  |    | 0.4  | 6    |      | 72  |
| 0   | van den Hul Frog             | 1,500 | Seems to control/suppress surface noise better than its rivals. This delicate and subtle performer has great charm  |   | •  |    | 0.65 | 7    | 2145 | 175 |
| 0   | van den Hul G' hopper IIIGLA | 2,800 | Undoubtedly one of the finest cartridges available. It has tremendous bandwidth, energy and finesse                 |   | •  |    | 0.4  | 6    |      | 122 |
| 0   | Wilson benesch Matrix        | 786   | Extraordinarily well balanced cartridge: neutral and detailed yet lively and rhythmically assertive                 |   | •  |    | 0.58 | 6    |      | 158 |
| 0   | Wilson benesch Carbon        | 1,573 | Carbon fibre body contributes to a delightfully clean and open midrange, and a quick, lively and coherent sound     |   | •  |    | 0.45 | 7    | 2145 | 175 |



## Cassette Decks

The compact cassette is still the world's most versatile and ubiquitous music storage medium. Cassette decks hook up to the 'tape loop' inputs and outputs offered by most modern amplifiers. It's worth taking care to choose the best tapes for a specific machine. For example, expensive metal tapes will be a wasted investment for a cheap deck. Many better-specified decks have manual or automatic bias adjustment to get the best from specific samples of tape. Twin decks offer the possibility of copying from tape to tape, playing two cassettes sequentially or recording onto two tapes at once. Autoreverse is a useful feature, but uni-directional mechanisms promise better sound. Dolby S is the ultimate noise reduction system, and three-head decks permit record monitoring off-tape.

#### KEY TO SPECIFICATIONS

DOLBY B/C: The first and second Dolby hiss-killers.
 DOLBY S: A desirable derivative of Dolby SR

professional noise-reduction.

• DOLBY HX-PRO: Extends headroom for cassette recording.

3-HEAD: Permits monitoring off-tape while you're recording.

 TWIN DECK: Contains two

decks for dubbing and continuous play.

• AUTOREVERSE:

Autroreverse:
 Automatically plays both sides of the cassette.

Automatically Plays both sides of the cassette.

Autror CALIBRATION: The the page of the material plays of the material plays

g. deck will automatically set up bias and EQ for any tape. • ADJUSTABLE BIAS: Permits manual optimisation of tape.

● FACTSBACK REFERENCE:
The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback advert on the penultimate page of the mag. ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

B BEST BUY B

RECOMMENDED

E EDITOR'S CHOICE

# Cassette Decks

DOLBY COLBY S PRODUCTION S

TWIN DECK PRODUCTION S

| STAI |                     |     |  | 9 | . O. |   |   | ) Y | 10 | - M      | 9   | <b>*</b> |     |
|------|---------------------|-----|--|---|------|---|---|-----|----|----------|-----|----------|-----|
| S    | PRODUCT             | (£) | COMMENTS   | V | V    | V | V | V   | V  | <b>V</b> | V   | V        |     |
| 0    | Aiwa AD-F450        | 120 | Basic but well-designed deck. Astonishing value; only the poor metering gives the game away          | • |      | • |   |     |    |          | •   | 1513     | 136 |
| 0    | Aiwa AD-WX727       | 170 | High-class twin for those who want bells, whistles — and music                                       | • |      | • |   | •   | •  |          | •   | 1377     | 146 |
| 0    | Denon DRM-550       | 160 | There are some technical limitations, but this remains a fine-sounding deck, and excellent value     | • |      | • |   |     |    |          | •   |          | 158 |
|      | Denon DRW-580       | 200 | Twin deck: OK for casual use, but will quickly pall with more quality critical applications          | • |      | • |   | •   | •  |          | •   |          | 171 |
| 0    | Denon DRS-640       | 200 | Draw-loading deck, with simple facilities and smooth, well-adjusted sound                            | • |      | • |   | •   |    |          | •   | 1591     | 140 |
| 0    | Denon DRM-650S      | 230 | An improvement on predecessors, it offers a wide-ranging, sound. Dolby S is not the best feature     | • | •    | • |   |     |    | •        | •   | 1920     | 164 |
|      | Denon DRM-740       | 270 | Breathed-on DRM-710, with good external treatment, offers good, if somewhat detached sonics          | • |      | • |   | •   |    |          | •   | 1514     | 136 |
|      | Denon DRS-810       | 310 | Draw-loading deck, carefully designed yet lacking in subtlety on audition                            | • |      | • | • |     |    |          |     |          | 127 |
|      | Harman/Kardon TD420 | 250 | Minor inconsistencies detract from a well-conceived, minimum features design                         | • |      | • |   | •   |    |          |     | 1592     | 140 |
|      | Harman/Kardon TD450 | 350 | Draw loader with poor tape navigation features; good midband but shallow bass                        | • |      | • | • |     |    |          | •   | 1920     | 164 |
| 0    | JVC TD-R472         | 200 | Excellent auto-reverse deck which doesn't suffer the usual disadvantages and is very sharply priced  | • |      |   |   |     | •  |          | •   |          | 158 |
| 0    | JVC TD-V662BK       | 270 | Assured, clean and agile-sounding recorder, if not quite the most refined in its class               | • |      | • |   |     |    | •        | •   | 1380     | 146 |
|      | JVC TD-W718         | 300 | Twin deck. Good for creative live recording, but no timer standby. Respectable performance           | • |      | • |   | •   | •  | •        | 7   | 2039     | 171 |
| 0    | Kenwood KX-W6080    | 200 | Modestly decent-sounding twin deck, with some transport instability and ragged bass                  | • |      | • |   | •   | •  |          | • 2 | 2040     | 171 |
|      | Marantz SD455       | 170 | Works well as a single deck, especially on replay, but dubbing at high/low speed compromises sound   | • |      | • |   | •   | •  |          |     |          | 184 |
|      | NAD 613             | 230 | Rough and ready, but enjoyable sound, though marred by mechanical motor noise                        | • |      | • |   |     |    |          | •   |          | 158 |
|      | NAD 616             | 300 | Twin deck with basic features. No Dolby setting memory, transport is too unstable for audiophile use |   |      | • |   | •   | •  |          | 7   | 2041     | 171 |
|      | Nakamichi DR-10     | 800 | An ergonomic oddity, but one of the last of the great cassette decks. Worth considering against MD   | • |      | • | • |     |    |          | •   |          | 195 |
| 0    | Onkyo K-611         | 460 | Cute drawer-loading mini-size component with 3 heads and dual capstan transport                      | • |      | • |   |     |    | •        | • 1 | 1384     | 146 |
| 0    | Pioneer CT-S550S    | 250 | Great features, good with cheap low bias tapes, but slightly synthetic sound quality                 | • | •    | • | • |     |    | •        | T   | 1920     | 164 |
|      | Pioneer CT-W806 DR  | 300 | Had it not been for the iffy transport quality, this sophisticated twin would have been Recommended  | • |      | • |   | •   | •  | •        | 2   | 2042     | 171 |
| 0    | Pioneer CT-S830S    | 500 | High-class mechanism, if lacking in battleship externals, and superb sound                           | • | •    | • |   |     |    | •        | • 1 | 1385     | 146 |
| 0    | Sony TC-KE600S      | 300 | Mild setting-up problems notwithstanding, this UK-tweaked design has a smooth, open sound            | • | •    | • | • |     |    | •        | •   |          | 158 |
|      | Teac V-1050         | 180 | One of the cheapest 3-head machines around, but it shows in very 'thick' sound                       | • |      | • | • |     |    |          |     |          | 184 |
| 0    | Technics RS-AZ6     | 200 | For those who can't afford the RS-AZ7; clarity over the widest bandwidth thanks to AZ thin-film head | • |      | • | • |     |    | •        | 1   | 1920     | 164 |
| 0    | Technics RS-AZ7     | 270 | Thin-film head gives a solid, almost CD-like bass and midrange. A clear advance in state-of-the-art  |   |      | • |   |     |    | •        | •   |          | 158 |
| 0    | Yamaha KX-490       | 200 | Electrifyingly transparent and capable deck whose only flaw is a trace of audible wow and flutter    | • |      | • |   |     |    | •        | •   |          | 158 |
| 0    | Yamaha KX-580SE     | 250 | Subtle, engaging and transparent deck, with a lightweight tonality, but stability and strong detail  | • | •    | • |   |     |    | •        | • 2 | 2043     | 171 |

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#### **CD/DVD Players**

II CD players offer a basic selection of facilities, and some can keep A If CD players offer a basic selection or number, and track you entertained for hours as you programme in disc names and track orders. All but the excessively inexpensive feature remote control. Most CD players can be upgraded by adding an outboard DAC (see p129). To do this the player needs a digital output of either electrical or optical type. The former is preferable for the ultimate sound. A CD player can be split into two basic components: the disc drive or transport, and a device which converts the disc's digital bitstream into an analogue audio signal. This is called a digital to analogue convertor, or DAC. Although most players are contained within a single box, expensive players are usually two-box affairs. The first new DVD players have not excelled with CD software.

BEST BUY

**RECOMMENDED** 

EDITOR'S CHOICE

#### KEY TO SPECIFICATIONS

- ELECTRICAL DIGITAL OUTPUT: For electrical connection to an outboard DAC
- AES/EBU ELEC DIG OUTPUT: Balanced digital output to be used with similarly equipped DACs.
- OPTICAL DIGITAL OUTPUT: For optical connection to an outboard DAC.
- ST OPT DIG OUTPUT: High-speed optical output to be used with similarly equipped DACs.
- BAL ANALOGUE OUTPUT: Balanced analogue output for amplifiers equipped with balanced inputs.
- HEADPHONE SOCKET: For 'can' users. • VARIABLE OUTPUT: Remotely adjustable output level (usually non-audiophile).
- MULTI-DISC: Equipped with a carousel or

multi-tray system for continuous play of multiple discs

- DAC TYPE: BS Philips Bitstream; MB multibit: Hvb - hvbrid of multibit and bitstream technologies; 1bit - single bit types eg MASH, bitstream, PWM, etc; CCconstant calibration.
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full information, see the Factsback advert on the penultimate page of the magazine.
- ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared. Factsback information page.

CD/DVD Players

ELEC DIGITAL OUTPUT 

| ı | PRODUCT                   | (£)   | COMMENTS  |      | V      | 30 A |       |      | V      | V | VV   | V                    |        |
|---|---------------------------|-------|---|------|--------|------|-------|------|--------|---|--|----------------------|--------|
| - | Acurus ACD11              | 899   | First-rate if costly player, which combines a delightful transparency with an uncontrived naturalness   |      |        |      |       |      |        | Ė | 1bit   | 1962                 | 16     |
|   | Acoustic Precision Eikos  |       | Seriously customised Pioneer with extraordinary resolution and world beating imaging and bass   | •    |        |      |       |      |        |   | 1bit   | 1502                 | 1      |
|   | Advantage CD1S            |       | A CD player of some stature – what it lacks in dynamics it makes up for in subtlety and flow  | •    |        | •    |       | •    |        | • | 20bit  |                      | 8      |
|   | Alchemist Kraken          |       |   |      |        | _    |       |      |        |   | -  |                      | N<br>N |
|   |                           |       | Distinctive looking player likely to suit a Alchemist system, but will result in variable results elsewh  | ere  |        |      |       |      |        |   | 24/96  |                      |        |
|   | Alchemist Nexus APD32A    | 597   | Refined treble, constrained yet capable bass and attractive all-round presentation  |      |        |      |       |      |        |   | Hyb  | 2071                 |        |
| _ | AMC CD8A                  | 150   | Has balanced output, but is otherwise rather grey and unremarkable  |      |        | •    |       | •    | •      | • |  | 2071                 | No.    |
|   | AMC CD9/DAC8              | 200   | Beer-budget two-box system (player plus DAC) is smooth, attractive and easy on the ear  |      |        |      |       |      | E 201  |   |  | 2261                 |        |
|   | Anthem CD1                |       | Unusual combination of high-end player, complete with HDCD, and changer. Good, but noisy  | •    | •      |      |       |      |        |   | - Care   | 2219                 |        |
|   | Arcam Alpha 7SE           | 350   | Revamped starter model is a clear improvement on very likeable predecessor  |      | Mary . | •    |       |      |        |   | MB   |                      |        |
|   | Arcam Alpha MCD           | 450   | Excellent bass and natural midband, but just a touch of treble dryness, from this very listenable change  |      |        |      |       |      |        |   | COORUNI  | 2220                 |        |
| - | Arcam Alpha 8             | 520   | Refined, intricately detailed but a little cautious. Should be broadly compatible with a variety of amps  |      |        |      |       |      |        |   | BS   | 1873                 |        |
|   | Arcam Alpha 8SE           | 600   | Excellent (and very reasonably priced) HDCD-compatible player is a strong all-rounder   | •    |        |      |       |      |        |   | 1bit   |                      |        |
| - | Arcam Alpha 9             | 800   | Refined, articulate player which employs new DAC technology to great effect   |      |        |      |       |      |        |   | Ring   |                      |        |
| 1 | Audio Analogue Paganini   | 750   | Basically good, but sometimes heavy-handed player   | •    |        | 9.0  |       |      |        |   | 24bit  |                      |        |
| , | Audio Research CD1        | 3,290 | Suspends disbelief with a real yet obviously coloured sound. A rare proposition among CD players  | •    | •      | •    | •     |      |        |   | BS   | 1875                 |        |
| - | Audio Note AN-CD1         | 600   | Easy on the ear, and for a valve player, easy on the pocket, but a bit Radio 2-flavoured  | •    |        |      |       |      |        |   | Hyb  |                      |        |
| 1 | Audio Note AN-CD2         | 999   | High output impedance makes performance unduly system fussy   | •    | 116    |      |       | 1    |        |   | MB   |                      |        |
|   | AVI S2000MC2              |       | A chip off the old block. This model's in-yer-face balance obstructs an otherwise finely detailed sou   | nd • |        |      |       |      |        |   | MB   | 2179                 | Í      |
|   | AVI S2000MC Reference     |       | Lean, dry, high resolution player, built to outlast most of us. A fine performer in a sympathetic systematic systematic for the system of the |      | 100    |      |       | Esv. | FILL   |   | MB   |                      | Í      |
|   | Balanced Audio Tech VK-D5 |       | A valve-infused player with a big and engaging sound. Lacks a little subtlety   | •    |        |      |       | •    |        | • | 18bit  |                      |        |
| ä | Cambridge Audio CD4       | 150   | Basic appearance and sluggish track access/track search belies its up-and-at-'em sound quality  | •    |        |      |       |      | •      |   | CONTRACT CON | 1268                 | À      |
|   | Cambridge Audio CD4SE     | 200   | Among the best encountered at the price, considerably more refined and convincing than the CD4  |      |        |      |       |      |        |   | BS   | 1977                 | ł      |
| - | Cambridge Audio CD6       | 250   | A sharp, articulate player, a real thoroughbred in fact, perhaps too sharp and lively for some system   |      |        |      |       |      |        |   | BS   | 1077                 | ė      |
|   | Copland CDA-266           |       | Simple yet elegant design is unexpectedly sophisticated under the skin, and effective in execution  | •    |        |      |       |      | 31 - T |   |  | 2183                 | ł      |
|   |                           |       |   |      | -      |      |       |      | -      |   | THE RESERVE TO THE PERSON NAMED IN   | - Carried Commission |        |
|   | Copland CDA 289           |       | Beautifully built and musically enjoyable. Lacks some precision, but still among the best below £2,0  |      | 1000   |      |       | 1    |        |   | 20bit  | -                    |        |
|   | Copland CDA-288           |       | A gentle giant of a player that errs in favour of pastel shades rather than bold daubs of colour  | •    |        | •    |       |      |        |   | STATE OF THE PERSON NAMED IN   | 1880                 |        |
|   | Cymbol CDP12              |       | Clean, detailed and airy HDCD-equipped player with minimalist trappings   | •    | -      |      |       |      |        | • |  | 2184                 |        |
|   | Cyrus dAD1.5              | 395   | Improved dAD1 variant has improved digital filter for a more natural, easy on the ear quality   | •    | 188    |      | 3 100 | 2    |        |   | Hyb  |                      |        |
| - | Cyrus dAD3                | 598   | A relaxed style of delivery that convinces with guile and subtlety rather than orchestral ordnance  |      |        |      |       |      |        |   | THE STATE OF THE S | 1887                 |        |
|   | Cyrus dAD3Q               | 898   | Lucid, transparent and uncontrived sound quality, superb build, and readily upgradable  | -    |        | •    |       |      |        |   | MB   | 1887                 |        |
|   | Denon DCD-435             | 130   | Good low cost player, and a step up from the DCD-425, its predecessor   |      |        | •    |       |      | •      |   | DS   |                      |        |
|   | Denon DCD-635             | 180   | Modest presentation gives little clue to the thoroughbred electronics ticking away inside   |      |        |      |       |      | •      |   | MB   | 2075                 |        |
|   | Denon DCD-625             | 200   | DCD-615 replacement is generously equipped but lacks sophisticated sound of its forebear  | •    |        | 156  |       |      | •      |   | MB   | 1269                 | ĺ      |
|   | Denon DCD-835             | 280   | Refined version of Denon's multibit technology is a bit of a star   | •    |        | •    |       |      |        | • | MB   |                      |        |
|   | Denon DCD-1550AR          | 350   | Disappointing bland and ploddy sound from an immaculately constructed, high-tech player   | •    |        | •    |       |      | •      | • | MB   | 2266                 | ,      |
|   | Denon DCD-1650AR          | 700   | Powerful, authoritative, and well equipped too, but this player sometimes lacks subtlety  |      |        | •    |       |      | •      | • | MB   |                      | Ī      |
|   | Denon DCD-3000            | 1,000 | Sings with the temperament of a huge orchestra under the baton of a timid conductor   |      |        | •    |       |      |        |   | MB   | 1881                 |        |
|   | Exposure CD player        | 1,049 | Slightly weak sounding, but otherwise well optimised, if costly player  | •    |        |      |       |      |        |   | MB   |                      |        |
|   | Harman/Kardon HD710       | 200   | A player of integrity, but can sound a bit hard and rough when extended, and is amplifier fussy   | •    |        |      |       |      | •      |   | 1bit   |                      | İ      |
| - | Harman/Kardon HD740       | 300   | Powerful but subtle and involving player: welcome back, Harman/Kardon   | •    |        | •    |       |      |        |   | DS   | 100                  |        |
|   | Harman/Kardon FL8300      | 300   | Generally capable changer with relaxed sound and firm bass. Just a hint of roughness on occasion  | •    |        |      |       |      |        |   | ALTONOMIC CONTRACTOR   | 2220                 | )      |
|   | Harman/Kardon HD760       |       |   | •    |        | •    |       |      |        |   | MB   | 2220                 | i      |
|   |                           | 500   | Sophisticated internally, but mildly disappointing when treading the boards in anger  | •    |        | -    |       |      |        |   | DS   | 0155                 | ŀ      |
|   | Helios Model 3            | 650   | Disappointing entry level model from Helios lacks verve and transparency  |      |        | -    |       |      |        |   |  | 2180                 |        |
|   | Helios Model 2            | 950   | This player may not be to everyone's taste, but it is an individual, with some interesting things to s  | ay • |        |      |       |      |        |   | Aller Co.  | 2072                 |        |
|   | JVC XL-V184BK             | 120   | Excellent budget player, well presented, a little opaque, but its heart is in the right place   |      |        |      |       |      | -      |   |  |                      |        |
|   | JVC XL-V284BK             | 140   | Featuring a new set of bitstream innards, this flexible player has a refined sound  | •    |        | •    | 100   |      | •      |   |  | 1270                 |        |
|   | JVC XL-Z574               | 250   | Strong resolving power, good midband and dynamics, but slightly raw and thin  |      |        | •    | 1     |      | •      |   | 1bit   |                      |        |
|   | JVC XL-Z674BK             | 300   | Even-handed, but glosses over the most intimate moments   | •    |        | •    |       |      | •      |   |  | 1637                 | -      |
|   | Kenwood DP-3080           | 170   | Bold, dynamic and outgoing sound, although somewhat aggressive. Poor build quality and finish   |      |        | •    | 100   |      | •      |   | 1bit   |                      |        |
|   | Kenwood DPF-3010          | 180   | Grey, somewhat mechanical sounding player   |      |        | •    |       |      |        |   | Hyb  |                      |        |
|   | Kenwood DP-4090           | 250   | Focuses a clear, wide aperture lens on the music — and has CD Text too  |      |        | •    |       |      | •      | • |  | 2076                 |        |
|   | Kenwood DP-5090           | 300   | Disappointing senior brother to the excellent DP-4090, but surface interface is good  | •    |        | •    |       |      | •      | • | 1bit   | 2267                 | ľ      |
|   | Kenwood DP-7090           | 400   | A lively and compelling performer with an even-handed and coherent disposition  |      |        |      |       |      |        | 5 | MB   | 1885                 | ĺ      |
|   | Linn Mimik                | 875   | Useful multi-room features matched to strong bass, but poor imagery and transparency  | •    |        | 100  | 1     | 1    | 1      |   | Hyb  | 1762                 | ĺ      |
|   | Marantz CD-48             | 200   | Somewhat inconsistent, middle ranking player which hints at better things   | •    |        |      |       |      | •      | • |  | 2077                 |        |
|   | Marantz CD6000 OSE        | 300   | A genuine evolution on the older CD63/67 series with a very energetic, foot-tapping performance   |      |        | •    |       |      | •      | 1 | BS   |                      | ĺ      |
|   | Marantz CD-63 MkII KI Sig | 400   | It's the quintessential sound of Marantz — warm, open, and smooth almost to a fault   | •    |        | •    |       |      | •      |   | Hyb  |                      |        |
|   | Marantz CD-17             | 800   | Fabulous packaging and an excellent all round per ormer: smooth, detailed and consistent  | •    | 1000   |      |       |      |        |   |  | 1763                 | -      |
|   | Marantz CD-17KI Sig       | 1,100 | Minor QC problems aside, this is a superbly turned-out machine, but ultimately a little bland   | •    | 1000   | •    | 2000  |      | 1935   | • | Contract of the Contract of th | 2181                 |        |
|   |                           |       |   |      | -      | •    |       | •    | 1000   | • | 16bit  |                      | A      |
|   | Marantz CD-7              | 3,500 | A supervity designed CD player, Don't inside and Out, Frecise and distribute in equal measure   |      |        |      |       |      |        |   | וועסוו   |                      |        |

BAL AMALOPHONE SOCKET SPECIFICATIONS CD/DVD Players OPTICAL DIG OUTPUT AES/EBU ELEC DIG OUT ST OPT DIG OUT FACTSBACK NO. VARIABLE MULTI-DISC TYPE
HONE SOCKET 0 Meracus Tanto Believable tonal colours and textures, refinement takes preference over dynamics – but it's not cheap DS 169 2182 Revised 506 includes MSR remote and a new D/A chip, which makes it li Monrio Privilege Costly and well-engineered, but ultimately rather heavy-handed and dull, if refined player MB 1963 166 Musical Fidelity E60 BS 300 This entry-level player lacks proper stereo localisation and clarity . 1959 166 Similar to X-RAY, but both better sounding and cheaper 0 Musical Fidelity X-RAY Brilliantly packaged and clean but slightly antiseptic sounding player . MB 184 Musical Fidelity A3 CD Based on the E624 and X-Ray players, this version sounds warm but richly detailed 196 400 Rather ordinary player fails to shine with good music recordings DS 184 Myryad T-10 Myryad T-20 DS 600 Matter of fact styling and sound quality, a tad bright for some systems 195 0 Myryad MC100 700 A little extra get-up-and-go wouldn't go amiss, but its sheer maturity and composure ensure listenability RS 1889 163 Myryad MCD500 2185 176 1,300 Well-built, attractive player, showing much promise, but can be a little heavy-going on audition . 1bit NAD 522 Crude, mechanical sounding player fails to tickle the music buds 2262 179 NAD 524 250 Clean, clear and essentially musical player in the NAD mould MB 191 NAD Silverline S500 MB It sounds as good as it looks, which is notably refined and easy on the ear 0 1,100 195 Naim Audio CD3.5 1,000 Forward and explicit sound needs careful system matching Hvb 188 Naim Audio CD2 2,000 Provides bags of detail with a solid stereo focus but not all the romanticism we know to be possible MB 1890 163 0 Brings you the Naim sound, but for once doesn't have to rely on Naim ancillaries to get the result BS Onkvo DX-7510 Strongly flavoured, assertive sound 1640 151 400 Orelle CD-100EA 649 Excellent imagery, timing and transparency, and readily upgraded or reconfigured MB 1964 166 Comes on like a high end player, but ultimately sounds a bit weak and soft-centred • 184 Parasound C/DP-1000 Hyb Surprisingly well-sorted, articulate if slightly glossy and attractively presented sound. Captive signal lead 0 Philips CD751 Inconsistent and occasionally opaque and scrawny sounding cheapie 1bit 172 Pioneer PD-S507 DS Low cost Legato Link implementation sounds gentle but slightly muddled 191 200 Pioneer PD-S707 300 Idiosyncratic Legato Link dominated sound, but always subtle and interesting MR 184 Interesting appearance and concept, but this changer's sound is lacklustre and ergonomics frustrating Pioneer PD-F906 . • 1bit 2223 178 Pioneer PD-S904 Too much legato – literally – in sound, but a very smooth performer 1bit 151 2176 MB O Pioneer PDS-06 Technologically sophisticated. Pioneer's first multi-bit player for years is polished and capable 176 550 460 Assured, fluid-sounding player, with great spatial coherence Well presented player doesn't quite cut the mustard, though it performs promisingly RS 188 Primare D20 182 Revox Exception E426 Very stylish with a light, agile sound that extends superbly and has fine timing BS Roksan DP3P Dramatic and compelling. Classical listeners should be ready to 'air conduct' when auditioning BS 1896 163 Roksan Caspiar Solid, articulate, and fundamentally well-engineered player, but with some subtle low-level limitations Hvb 169 0 Disappointing chopped-down RCD-971 – buy the original MB 191 Rotel RCD-951 0 Odd disc handling logic, but bold, detailed and refined sound make this a must Confirms Rotel's status as must watch brand: great stuff 0 Sherwood CD-4030R Easy on the ear, smooth-sounding player, with limits set by the slightly soft, compressed quality BS 159 180 0 • BS 163 Sherwood CD1 A very neutral, even handed sounding player with a rather flat, lifeless sound. Beautiful construction Sony CDP-XE310 140 Excellent value and bright as a button, but can sound OTT in some systems 1bit 179 0 Sony CDP-XE510 Souped up CDP-XE500 which tells a rather bland and unengaging story . . 1bit 172 180 Sony CDP-XB720E 200 Good basic performance and a number of filter settings make this an interesting player for tweaks Low bit 184 Sony CDP-XA20ES 176 1bit 450 High tech, with a long list of gadgets, oddly configured player that ultimately sounds less than compelling Sony CDP-X3000E 500 Shoebox format player, looks to die for, switchable digital filters to tweak the already excellent sound 0 Sony CDP-XB9308 Yet another first rate UK optimised player with all the bells and whistles Sony SCD-777ES Beautifully built SACD player that looks like a bit of a CD player bargain E The first SACD player sounds fabulous but there's not much competition and limited software as yet • DS 188 T+A CD1210R 1,185 Intriguing player with rather pushy basic sound, but has switchable digital filters 191 Talk Electronics Thunder 2 Fine player, slightly lacking in dynamics, but readily, if expensively upgradable in various ways 1-bit Talk Electronics Thunder 3 Clean, fast, and availability of a complete upgrade path make this a good long term proposition DS 195 188 0 TAG McLaren CD20R Dry and unatmospheric, but plenty of presence - recommended with caution BS For once a budget player where gadgets take second place to respectable, budget amp-friendly sonics 200 BS Teac CD-5 Bright, breezy and upbeat - but short in the trouser department . 1643 151 350 Teac VRDS-8 Superb build quality is matched to good, but not exceptional sound quality MB 184 Teac VRDS-9 Well-presented. This Teac is crisp, yet shallow, and inconsistent in sound quality and partnering skills . . Ibit 176 Teac VRDS-10SE Superbly built and presented, but rather leaden bass, with an over-prominent mid/top BS 169 Excellent, individualistic player with bold, colourful sound, but test sample had iffy CD-R compatibility Teac VRDS-25x MB 195 Technics SL-PG480A 130 Full driving sound, but somewhat uneven in balance with a unsubtle, slightly harsh top end 1bit 159 a Technics SL-PS670D Fine, middle ranking player which sounds solid, sometimes even a little stolid 2264 179 1bit Technics SL-PS770D 250 High tech and well built technology battleship which smooths the rough edges off the music • • BS 2080 172 250 If you fancy a CD player that holds 111 discs, this one's cheap, pretty capable, and easy to use 178 Hyb 2224 Thule Spirit CD100 Definitely a try before you buy machine, but the bass and mid are excellent 600 DS 188 Breathed-on Pioneer is warm and mellifluous, but ultimately lacks drive and authority Trichord Genesis 549 . Hvb 169 Trichord Revelation Well-ordered and clean sound that may be a little too refined for some, images well 1bit 1966 166 Tube Technology Fusion Our early test sample was primitive and flawed, but showed signs of greatness 195 2,800 An imaginative two-box player with a smooth sound that lacks some lustre 24bit 194 XTC CDP-1 Bright and sometimes abrasive, but detailed player MB 2186 176 Wadia 830 3,000 Envelope busting dynamics, power and imaging in a rather unexciting box (digital volume control) MB 183 Wadia 860x If you want to discover what CDs are really capable of this has few peers . MB 199 . Yamaha CDX-493 180 Open and lively, but this player is also messy and lacking resolving power Hvb 191 Yamaha CD-X993 400 A bit of a lush, though the sound is singularly free of grain, and equipment levels are strong . 184 BS YBA Spécial There is nothing here to justify the pricing or the high-end parentage. Avoid MB 195 YBA CD1α 3,895 A remarkably fluid and graceful sound – one of the best we've heard below £5,000 194 TRANSPORTS Audio Note CDT Zero 399 Neat shoe box size transport sounds smooth and fluid in the right system. (Tested with DAC Zero) Based on early Linn transport, the Karik is dry but very positive, detailed and engrossing 1323 144 Roksan Attessa ATT-DP3 Not the most detailed or refined but capable of sounding exciting with the right material 1867 162 Teac VRDS-T1 Superb quality engineering is mated to tidy and composed sound. (Tested with D-T1) • 144 1325 Theta Data Basic I Uses a Philips CDM9 Pro mechanism and works a treat with more lively DACs 1494 130 Thorens TCD2000 Lively presentation not helped by rather loose bass and splashy treble. (Tested with TDA 2000 DAC) 1867 162 Trichord Digital Turntable 699 Very detailed, precise, controlled yet involving; a first-rank performer . 1867

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# CD/DVD Players

AES/EBU ELEC DIG OUT ELEC DIGITAL OUTPUT FACTSBACK NO. OPTICAL ST BAL AHEADPHONE AND ONE OUTPUT

UELEC DIG OUTPUT

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UTPUT

OUTPUT

OUTP ISSUE NUMBER

| STA   |                            |       |  | •              | -/        |   | 9 . 4        |       |                             | 40       |
|-------|----------------------------|-------|--|----------------|-----------|---|--------------|-------|-----------------------------|----------|
| 2     | PRODUCT                    | (£)   | COMMENTS   | The State of   |           |   | <b>V V V</b> |       | V                           | <b>V</b> |
| 1     | DACS                       |       |  |                |           |   |              | -     |                             |          |
| ı     | Alchemist TS-D-1           | 300   | 24/96-equipped DAC sounds tidy but a little shut-in with both 16-bit CDs and 24-bit, 9   |                |           |   |              | BS    |                             | 187      |
|       | Audio Note DAC Zero        | 369   | Neat valve-equipped DAC sounds smooth and fluid in the right system. (Tested with CDT Z  |                |           |   | 32/52        | Hyb   |                             | 191      |
|       | Linn Numerik               |       | A new 20-bit DAC and revised Karik transport have cleaned up; but sounds a bit dry an  |                |           |   |              | -     | 1323                        | 144      |
| E     | Musical Fidelity X-24K     | 300   | 24/96 ready with a warm, natural sound and good soundstaging (tested with Pioneer I  |                |           |   |              | MB    |                             | 187      |
| 0     | PS Audio UltraLink 2 HDCD  | 2,590 | The sound positively sparkles with colour and resonant detail. (Tested with Lambda tran  | isport)        |           |   |              | MB    | 1106                        | 133      |
|       | PS Audio Reference Link    | 4,550 | Consolidates reputation of PS Audio for high performance digital electronics   |                |           |   | •            | MB    | 1069                        | 132      |
|       | Roksan Attessa ATT-DA2/DS5 | 1,145 | Not the most detailed or refined but capable of good excitement with the right material  |                |           |   |              | 1bit  | 1867                        | 162      |
|       | Teac D-T1                  | 500   | Teamed with VRDS-T1 for test, this superb quality unit is tidy and composed  |                | No.       |   |              | BS    | 1325                        | 144      |
|       | Thorens TDA2000            | 700   | Lively and up-front presentation not helped by rather loose bass and splashy treble  |                |           |   |              | BS    | 1867                        | 162      |
| 0     | Trichord Pulsar Series One | 1,395 | Very detailed, precise, controlled yet involving, a first-rank performer. Switchable phase,  | dither etc.    |           |   |              | Hyb   | 1867                        | 162      |
| 1,410 | DVD PLAYERS                |       |  |                |           |   | 1            |       | -                           |          |
|       | Denon DVD-2500             | 500   | Good picture, but nondescript sound, except when using the digital output at full 24/9   | 6 throttle     |           | • | •            | DS    |                             | 198      |
| 0     | Denon DVD-3000             | 700   | Enjoyable rather than analytical, includes 24/96 and AC-3/MPEG-2 Audio   |                | 1555      | • |              | BS    | 4270                        | 180      |
| E     | Denon DVD-5000             | 1,600 | The first DVD-V player that ain't bad as a CD player. A fine musical device  | 0              |           | • | •            | BS    |                             | 187      |
|       | Hitachi DV-P2E             | 400   | DVD player, based on last generation Pioneer, is good but uninspiring  | •              |           | • |              | 24/96 |                             | 190      |
| 1     | JVC XV-S2000               | 475   | DVD player with excellent picture but flat sound in most modes   | •              |           | • | •            | PEM   |                             | 190      |
| 1     | JVC XV-D711                | 500   | Good video player, but rather undeveloped musically – CD Text is neat, though  | •              |           | • | •            | DS    |                             | 198      |
| 0     | Kenwood DVF-9010           | 1000  | DVD player with brilliant picture and clean, lively sound  |                |           | • | •            | 24/96 |                             | 190      |
|       | Nakamichi DVD-10           | 800   | Not the most compelling model in the resurrected Nakamichi line-up   | •              | 1000      | • | •            | DS    |                             | 198      |
| 1     | Panasonic DVD-A150         | 400   | Simple, mid-market DVD player is vice-free but limited for the audiophile  |                |           | • | •            | 24/96 |                             | 190      |
|       | Panasonic DVD-A360E        | 580   | Powerful equipment, and unthrottled digital output notwithstanding, sound quality is m   | nodest at best |           | • | •            | DS    |                             | 198      |
| 0     | Philips DVD750             | 400   | Clever DVD with CD-R/CD-RW compatibility and surprisingly keen sound   |                | 1 Sec. 10 | • |              | DS    |                             | 198      |
| 0     | Pioneer DV-515             | 400   | Unusually well equipped (CD-R compatible etc) DVD with more than fair sound and p  | icture quality |           | • |              | MB    |                             | 190      |
| 0     | Pioneer DV-626D            | 450   | Superbly equipped, and more than respectable sound quality   |                |           | • | •            | DS    |                             | 198      |
| 0     | Pioneer DV-717             | 550   | Superb DVD player with good picture quality and which really knows how to play 24/9  | 6 discs        |           | • |              | MB    | 1200                        | 190      |
|       | Samsung DVD-907            | 500   | DVD player with below average picture, and lacklustre sound quality  | •              |           | • |              | 24/96 |                             | 190      |
| 0     | Sony DVP-S7700             | 950   | Powerfully endowed player offers articulate and believable sound   |                |           | • | •            | DS    |                             | 198      |
| _     | Teac DV-1000               | 400   | Blowsy, and occasionally astringent sounding, but otherwise straightforward and reason   | nably priced   |           | • |              | DS    |                             | 198      |
| 1     | Theta DaViD                | 4,650 | A top-notch CD transport, that also plays DVD-Video discs well. Pricey for a DVD transport   |                | •         |   |              | 24/96 |                             | 191      |
| 1     | Thomson DTH2000            | 380   | This DVD player's main attributes are reasonable pricing and fair to good all round per  |                |           | • |              | 24/96 | The late have been deadless | 190      |
|       | Toshiba SD9000             | 800   | Costly, high tech player with stunning pictures and crisp, slightly lightweight sound  | •              |           | • | •            | DS    |                             | 198      |
|       | Yamaha DVD-S795            | 529   | Fare price, and an unconstrained digital output, but otherwise unexciting  |                |           | • |              | DS    |                             | 198      |
|       |                            | 323   | The property and a second of the second of t |                | 1972      |   |              | 55    |                             |          |



#### **Digital Recorders**

Domestic digital recording has been possible since the launch of digital audio tape (DAT) in the '80s. Since then DAT has remained expensive and largely esoteric, favoured only by well-heeled or professional users. Digital Compact Cassette and MiniDisc (MD) were launched in the early '90s but only MD has stayed the course. A little later came domestic CD-Recorders using CD-R discs, while the latest twist is the arrival of re-recordable CDs know as CD-RW discs. The recording quality hierarchy is as follows: DAT, CD-R/CD-RW, MD. MD is probably the most convenient to use, and offers sophisticated editing facilities, while CD-R is ideal for making digital 'dones' of prerecorded CDs. DAT is the medium of choice for high-quality location recording.

#### SPECIFICATIONS KEY T O sound into digits during live

recording. Types of ADC are as

per DACs (qv).

PORTABLE: Battery

operable, but not necessarily

● FORMAT: Type of recorder see left for descriptions.

● DAC TYPE: Digital to analogue converter: BS - Philips Bitstream; MB - multibit; Hyb hybrid of multibit and bitstream; 1bit - single bit types such as

MASH, bitstream, PWM etc ADC TYPE: The analogue to digital convertor (ADC) converts

personal-stereo-sized. OPTICAL IN/OUTPUTS: Digital socketry for optical cable. ● ELEC IN/OUTPUTS: Digital socketry for electrical cable

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# Digital Recorders



| STAT | 0                        |       |   | 9    | 0  | -        | -UT        | 2012  |         | П   |
|------|--------------------------|-------|---|------|----|----------|------------|-------|---------|-----|
| S    | PRODUCT                  | (£)   | COMMENTS  |      | V  | <b>V</b> | <b>V</b> 1 |       | •       |     |
|      | MINIDISCS Denon DMD-1000 | 300   | A good machine, but it still doesn't manage to shake off the MiniDisc plague of losing the listener's interest          | MB   | BS | N        |            |       | Sale AV | 184 |
|      | Denon DMD-1300           | 500   | Sound sometimes lacks integration but tonal balance is good and it handles loud music with panache                      | MD   | BS | BS       |            |       | 2193    | 177 |
| 0    | Kenwood DMF-9020         | 500   | One of the best MD decks yet for sound quality, and the first to make titling a practical proposition                   | MD   | BS | BS       |            |       | 2.55    | 191 |
| 0    | Kenwood DM-9090          | 550   | Slight sibilance and image vagueness do not detract from excellent balance and solid bass                               | MD   | BS | BS       |            |       | 2194    | 177 |
|      | Marantz CM635            | 500   | CD player and MD recorder in one box: a practical idea but sound and features don't really match the asking price       | MD   | BS | BS       |            | •     |         | 191 |
| 1    | Onkyo MD-121             | 450   | Midi-sized deck that sounds slightly coloured at times, though immediate and lively                                     | MD   | BS | BS       |            |       | 2195    | 177 |
| 0    | Pioneer MJ-D707          | 250   | A handy set of features for the price, though sound is not outstanding  | MD   | BS | BS       | •          | •     |         | 191 |
| 0    | Sharp MD-R1 MkII         | 200   | It's cheap: sound is not outrageously bettered by rather pricier competition. A bit thin on features though             | MD   | BS | BS       |            | •     |         | 191 |
|      | Sharp MDR3H              | 300   | Nifty machine combining a 3-disc CD changer with a MD recorder. Sound on both is rather below par, though               | BS   | BS | N        |            | •     |         | 184 |
| 0    | Sharp MD-R2              | 300   | Budget recorder that loses little or nothing in comparisons with much more expensive models — highly capable            | MD   | BS | BS       | •          |       | 2196    | 177 |
| 0    | Sony MDS-JB920           | 300   | One of the better MD decks, its sound is neutral and dynamic. European Audio Recorder of the Year '98-'99               | BS   | BS | N        | •          |       |         | 184 |
| 0    | Sony MDS-JA20ES          | 500   | Sound quality about as good as it gets with MD to date, and a very comprehensive features set too                       | MD   | BS | BS       |            |       |         | 191 |
| E    | Sony MDS-JA555ES         | 650   | Probably the best MD deck to date, with consistently less quality loss over a wide range of programme. Lots of features | MD   | BS | BS       | •          |       |         | 194 |
| 1    | Yamaha MDX-793           | 300   | Nice machine to use and has some useful features, but sound quality a little wanting                                    | MD   | BS | BS       | •          | •     |         | 191 |
| 1    | CD RECORDERS             |       |   |      |    |          |            |       |         |     |
| 1    | Marantz DR700            | 600   | Dearer than Philips and Traxdata equivalents, with apparently only a smarter front panel to show for it                 | CD-R | BS | BS       |            | •     |         | 191 |
| 0    | Philips CDR-880          | 499   | Capable of making perfect copies of CD digital, and very acceptable copies of anything analogue too                     | BS   | BS | N        |            | •     |         | 184 |
| 0    | Pioneer PDR-555RW        | 480   | Competitor to Philips' CDR-880; can't make perfect copies but has the edge in replay and analogue record sound          | BS   | BS | N        | •          |       |         | 184 |
|      | Pioneer PDR-04           | 700   | Scaled down version of the PDR-05 with auto level setting but all the socketry and features you need to make CDs        | CD-R | BS | BS       | •          | •     |         | 171 |
|      | Pioneer PDR-05           | 1,000 | The first domestic CD-R deck — excellent sound quality  | CD-R | BS | BS       |            | •     | 1652    | 152 |
| 0    | Traxdata Traxaudio 900   | 499   | Identical to Philips and Marantz models: it makes bit-perfect copies of CDs and has perfectly acceptable replay         | CD-R | BS | BS       | •          | •     |         | 191 |
|      |                          |       |   |      |    | 1        |            | UI EL | -       |     |



#### Headphones

here are several different ways of making a headphone. The most expensive models employ electrostatically-driven diaphragms within an open-backed earcup. Most mid-price designs feature dynamic, moving-coildriven diaphragms in open, semi-open or dosed-back designs. An openbacked headphone can sound remarkably transparent, but also permits the ingress of external noise. Closed-back designs keep out unwanted sound, but may be less comfortable to wear and more coloured. The latest development is the cordless headphone using either infrared light or, more recently, radio waves. Quality is improving, but has yet to match the best corded designs

#### **SPECIFICATIONS** ■ IMPEDANCE (Ω): Load

offered to the headphone

- TYPE: Operating principle dynamic: F - electrostatic
- SUPRA-AURAL: Where a flat CIRCUMAURAL: Where the
- earcup encloses the ear. OPEN BACK: Offers an
- CLOSED BACK: Keeps out MASS (g): Mass in grams
- amplifier. Many headphones offer a significantly higher value than loudspeakers, for example but this does not mean they will be incompatible with the majority of amplifiers
- 3.5MM JACK ADAPTOR: Compatible with mini-jacked components, eg personal stereos
- ENCINE ACT DESERVE The Factsback Reference number permits direct access to our faxed review reprint service. For full info see the Factsback section of our
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SPECIFICATIONS

**EDITOR'S** CHOICE

#### OPEN CLOSED MASS FACTSBACK NO. Headphones MASS (B) ACK ADAPTOR CIRCUMAURAL SUPRA-AURAL AKG 301 Big 'phones with even and detailed sound but lacks sufficient bass weight 70 230 100 194 AKC, K 240 DE D 100 Inoffensive 'phones that are very laid back, if lacking in grunt 240 600 186 AKG K1000 One of the best dynamics on the market, hooks directly into speaker outputs D 270 120 99 O Audio Technica ATH910PRO The closed back 910s are an improvement on the 909s, with a nice rhythmic quality rarely found D 280 55 O Audio Technica ATH-D40fs Detailed and involving sound with a professional 'studio' quality appeal D 250 194 D 60 186 0 Audio Technica ATH-M40 Incredible detail and honesty from these classically designed studio 'phone 250 D 40 133 Beyer DT311 50 Uncharacteristically tight, unrefined sound quality from this otherwise well engineered 'phone 124 Bever DT411 A reasonable but not very thrilling headphone that doesn't really offer enough at the price D 120 111 Beyer DT331 65 Clear and extremely detailed sound with rather thin bass D 210 40 194 Beyer DT431 D 81 Nice looking 'phones that may not be the best players on the field, but will always give 100 per cent 210 40 186 Beyer DT511 Superb midband clarity and speed slightly at odds with soft bass. Even so, high tingle factor D 200 172 106 250 D Beyer DT531 A good buy for serious, heavy-duty music making 245 144 0 0 Beyer DT831 These provide silky, smooth textures in abundance and we're not just talking about the velvet ear pads Beyer DT100 D 157 Rugged, modular professional design, but bass is woolly and treble lacks detail 350 160 600 Beyer DT911 170 275 250 11 Probably too revealing for many headphone amps: these are very subtle and fine, if expensive cans 0 Denon AH-D550 80 A competent 'phone with integrity, but little panache or charisma. Hard headband causes brain strain D 200 35 157 D . Denon AH-D750 130 Loud and gutsy, meaty bass, good with rock and dance. Can sound thick and clumsy 250 30 2063 172 Grado SR-40 D • 45 32 172 Cheap and nasty appearance largely redeemed by cheerful, up-beat sound. Very comfortable 120 2064 For sheer musical enjoyment these are hard to beat. Retro styling may not be to everyone's taste Grado SR-80 100 Open and dynamic with pedantically open mid-band. Crude physical design, rough frequency extremes D 60 157 1801 D Grado SR125 32 0 150 What these 'phones lack in style they make up for ten-fold in musical quality 200 186 Grado SR-225 200 Warm, darkly-coloured tonally and ultimately lacking in clarity, but true to the spirit of the music D 200 32 1883 163 Jecklin Float Model While very unusual in appearance, the Floats give remarkable sound quality and openness IVC HA-D50 45 Detailed but with a characteristic mid-band all of their own and a modest amount of lower bass D 290 56 • 194 JVC HA-W60 49 D Remarkable lack of interference and hiss ameliorates adequate sound of this cordless design 165 I/R . 172 IVC HA-D910 D 121 65 Broadly acceptable if unexciting design with low level losses and some colorations 220 32 JVC HA-W200RI Distinct lack of hiss from these FM cordless 'phones ensures that detail and depth are easily heard D 280 186 0 Koss TD/80 50 Oodles of bass but with a recessed midband; tiresome on the head with prolonged wearing D 250 60 . 194 D • Koss R/100 100 215 60 186 Rather cheap looking 'phones that supply good detail but are severely lacking in midrange excitement Precide Ergo Model 2 Still has much of the spaciousness of the Float from which it is derived, but coarse mid/top D 380 100 163 1892 Remarkably airy for closed-back designs. Fine tonal balance, punchy delivery. Amazing value for money 0 Philips SBC HP900 Sharper, snappier midrange than 3396: initially impressive but blows it on balance and listenability 200 32 . 2065 172 Sennheiser IS 380 D I/R 55 As close as you'll get to real hi-fi with infra-red phones at this price. Inevitable hiss spoils the illusion 192 . Sennheiser HD 455 Inoffensive, if nondescript sound; modular, but can become dislodged from head D • 157 185 60 180 O Sennheiser HD 500 A disappointing pair that offer good stereo-imaging, but little else D • 186 Sennheiser HD 475 80 Elegant, uncluttered sound and very comfortable but lean bass saps satisfaction 120 60 . 2065 172 Sennheiser RS 400 D • 80 FM cordless 'phones that are very wearable, but slightly woolly sounding with interference problems 160 N/A 186 Sennheiser HD 570 Symph Comfortable, light-weight 'phones with a detailed and open sound but lacks bass depth on weightier music D 210 64 194 Sennheiser HD 545 Fine all-rounder that takes all styles of music in its stride. Ear-clamping headband 150 . 2066 172 Sennheiser HD 565 Ovation Wide bandwidth design which is refined, expressive and extremely comfortable Sennheiser HE 60/HEV70/UK 998 Very nearly a superb electrostatic, with a pure midband, but top end is sibilant and edgy E 260 N/A 163 1898 Sony MDR-605LP Funky looking headphones that have a very bold, but tiring sound, with coloured bass D 186 Sony MDR-CD770 Neutrality and comfort make the Sony easy to live with. Correct-sounding too, yet musically unrewarding • 157 Sony MDR-V700DJ 100 D Great looking fold-away 'phones with exceptional build quality. Kickin' bass • 300 24 194 Astonishingly detailed, uncoloured and free of the usual artefacts from a sealed back headphone O Sony MDR-F1 Natural, easy-going sound teamed with great looks and comfort. Shame about the lightweight bass D 100 300 12 . 172 Technics RP-DI1200 130 Functional design with head-pulping bass and muggy tonal balance. Good job they're sweat-proof D 230 32 . 172 2067 Stax Lambda Nova Basi Refined, articulate, yet with real presence – and a notable bargain by electrostatic standards Vivanco Cyberwaye FMH3000 40 The only cordless 'phone to offer genuine walkabout freedom, but sounds like a cheap FM tuner D 210 FM 172 Vivanco IR5800 Consistently musical infra-red design. Doesn't reach for sonic heights so hiss can be forgiven D • 50 1/2 172 Vivanco SR650 D 50 Unusually comfortable 'phone with excellent detail resolution but aggressive . 175 1801 157 Cossetting physical design, attractive sound, though suffers overhang and lacks ultimate dynamics 188 Vivanco SR 950 Cuddly feel and sound make these an enjoyable pair of 'phones 194 252 32 Vivanco FM7980 80 A fair amount of whine and crackle detracts from 'phones which are otherwise very listenable D 186 280 9.000 Vivanco FM8 180 99 Well thought-out features and a better than average sound are, at times, marred by intrusive hiss D 240 9,000 186



Heybrook Prima 2

0

159

200

#### Loudspeakers

As the last link in the hi-fi chain, loudspeakers are at the mercy of incoming signals. Nevertheless, distortions introduced by loudspeakers tend to be the most obvious. Inside the average loudspeaker is a simple electrical circuit (the crossover) which splits the incoming, full-frequency-range signal for the specific drive units to handle: highs to the 'tweeter', lows to the 'woofer'. For any speaker, designers must balance the 'sensitivity' of the loudspeaker (how loud it goes for a given electrical input) against bass extension (how low it goes). Subwoofers augment bass and are either passive (unamplified) or, preferably, active (self-amplified). Our 'bass from' figures are based on measurements in a particular room therefore results will vary in different environments.

#### KEY SPECIFICATIONS indicates how much resistance

SIZE WXHXD (cm): Width by neight by depth in centimetres.

• FLOORSTANDER: Requires

no stand support.

● SENSITIVITY (dB/W): How much sound results for a given electrical input - the higher the figure, the louder the speaker, An IMPEDANCE (Ω):

amplifier. As impedance decreases, demands on an amplifier increase. BASS FROM (Hz): The

lowest frequency that a speaker can reproduce effectively. • FREE SPACE: Speakers which

should not sit dose to walls

the speaker presents to an • FACTSBACK REFERENCE:

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Impedance, measured in Ohms, **BEST BUY** 

● CLOSE TO WALL: Speakers RECOMMENDED

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March 2000 HI-FI CHOICE

2256 179



# Loudspeakers

|   |       |  | SPEC                            | I F            | I C     | A T        |         |       |                  | <b>6</b> - 1 - 1  |     |
|---|-------|--|---------------------------------|----------------|---------|------------|---------|-------|------------------|-------------------|-----|
| Loud  | lS    | peakers  | S P E C SENSITIVITY ( DRSTANDER | PEDAN<br>db/W) | ASS FRO | FREE OM (H | CLOSE   | FACT. | ISSUE<br>SBACK A | NUMBER<br>O.      | P   |
| PRODUCT   | (£)   | COMMENTS   | V                               | ▼ .            | V       | •          | V       | V     | V                |                   |     |
| Acoustic Energy Aegis Centre                            | 140   | Good value centre-front speaker but a tad shut in and with a slightly obvious top end (price per speaker   | 46,17,20                        |                | 89      | 5          | 50      | •     |                  |                   | 19  |
| Acoustic Energy Aegis One                               | 150   | At a new low price, this has a very natural and transparent midband, erring a little on the dull side  | 19,36.5,24                      |                | 87      | 6          | 40      | •     |                  |                   | 18  |
| Acoustic Energy Aegis Three                             | 350   | High value floorstander has deep and even bass and a smooth neutrality thereafter  | 19,90,25                        | •              | 90      | 5          | 22      | •     |                  |                   | 19  |
| Acoustic Energy AE120SE                                 | 500   | Attractive styling and good sonic headroom, but a heavy, uneven overall balance, and a difficult amp load  | 18,97,28                        | •              | 89.5    | 10         | 25      | •     | 1111             |                   | 1   |
| Acoustic Energy AE520                                   | 1,000 | Could be more neutral, but high-class build is reflected in a high-class sound. Very elegant too   | 21,98,30                        | •              | 91      | 3          | 25      | •     |                  |                   | 1   |
| ALR Jordan Note 7                                       | 2,500 | A beguiling Anglo-German collaboration delivers metal-cone precision with fine dynamic range   | 25,107,32                       | •              | 92      | 4          | 25      | •     |                  |                   | 1   |
| ATC SCM10   | 1,000 | A compact speaker with good transparency but light-weight bass   | 18,38,25.5                      |                | 80      | 8          | 65      |       | •                |                   | 1   |
| Audio Gem Emerald                                       | 540   | Pretty compact floorstander with lively if lightweight sound   | 18,94,21                        | •              | 87      | 6          | 40      | •     |                  | 1905              |     |
| Audio Note AN-J/B                                       | 799   | Light damping and local unevenness add some coloration, but don't spoil the speaker  | 38,58,25                        |                | 93      | 8          | 25      |       | •                |                   | 1 0 |
| Audio Note AN-E/B                                       | 1,299 | Coherent, dynamic and transparent, with extended bass and high sensitivity — but ugly  | 36,84,28                        | •              | 94      | 8          | 20      |       | •                |                   |     |
| Audio Physic Tempo                                      | 1,999 | Tall and unusually-styled floorstander has stunning stereo but suspect bass tuning   | 22,107,47                       | •              | 88      | 8          | 28      | •     | •                | 1344              |     |
| Audiovector C2  | 799   | Elegant two-and-a-half-way has a big, full bandwidth sound, but midband seemed a little under-developed  |                                 | •              | 90      | 4          | 20      | •     |                  |                   |     |
| Audiovector M2  | 1,399 | High-class, smooth and slightly laid-back performer has driving bass. It's upgradable, too   | 20,102,30                       | •              | 89      | 4          | 22      | •     |                  |                   |     |
| AVI NuNeutron   | 500   | A smooth and subtle though pricey sub-miniature, albeit with the inevitable limitations of the breed   | 14,27,23                        |                | 86      | 4          | 50      |       | •                |                   | 1   |
| AVI Positron  | 899   | This 'mini-floorstander' is capable of great precision and delicacy, but in a rather small scale way   | 17.5,74,245                     | •              | 85      | 6          | 40      | •     |                  | 2130              |     |
| B&W DM302   | 150   | Highly competent and neutral all rounder; clever Prism enclosure   | 19,32,22                        |                | 88      | 4          | 45      |       | •                | 1778              | B   |
| B&W DM305   | 350   | Ridged paper cone gives lively sound, dever box, but a little uneven   | 22,87,31                        | •              | 89      | 4          | 40      | •     |                  | 1908              |     |
| B&W LCR6  | 349   | Large gutsy stand-mount intended for all-round AV use but delivers fine performance as a stereo pair too   |                                 |                | 90      | 5          | 20      | •     |                  | 1300              |     |
| B&W CDM2SE  | 400   | Beautifully styled and finished, respectable midband. Lacks definition towards frequency extremes  | 22,32,25                        |                | 87      | 6          | 40      |       | •                |                   |     |
| B&W 603 S2  | 550   | Capable of being driven seriously loud, but the cautious balance seems less happy playing at low level   |                                 | •              | 91      | 4          | 22      | •     |                  |                   | i   |
| B&W CDM1SE  | 600   | A great looking stand-mount with one of the best midbands around, and a subtle blend of other qualities  | 22,37,29                        |                | 88      | 5          | 40      | •     |                  | 2209              | -   |
| B&W CDM7  | 1,000 | A combination of serious welly and physical elegance; but a basic lack of midband smoothness   | 22,97,29                        | •              | 90      | 4          | 22      | •     |                  | 2131              | -   |
| B&W Nautilus 805  | 1,400 | A small-sounding loudspeaker dynamically, but very stylish, clean and 'unboxy', delivering loads of det  |                                 |                | 89      | 12         | 28      | •     | 1000             | 2131              |     |
| B&W Nautilus 802  | 6,000 | Outstanding example of the high-tech speaker builder's art, needs real power but gives real sound  | 39,111,55                       |                | 91      | 8          | 34      | •     |                  |                   |     |
| B&W Nautilus 801  | 8,500 | The 801 is a magnificent loudspeaker in nearly every respect, but it is one that likes to play loud  |                                 | •              |         |            |         | •     |                  |                   |     |
| Blueroom MINIPOD  |       |  | 52,111,69                       | -              | 91      | 8          | 34      | •     |                  |                   | -   |
|   | 249   | The MINIPOD can show its competitors a thing or two about freedom from boxiness and looks fab  | 18,34+,17                       |                | 91      | 4          | 50      |       | •                |                   |     |
| Cabasse Farella 400                                     | 950   | Exciting but very upfront-and-in-yer-face sound. High sensitivity, fine build and good dynamic drive   | 26,92,32                        | •              | 92      | 5          | 28      |       | •                |                   |     |
| Carlsson OA52.2   | 1,500 | Ultra-discreet design integrates cleverly with the listening room. Impressively unboxy, but sounds a bit thin  |                                 | •              | 90      | 8          | 20      |       | •                |                   |     |
| Castle Keep   | 250   | Substantial centre-front speaker based on Harlech drivers but with rather brighter voicing   | 48,17,27-29                     |                | 88      | 8          | 45      | •     |                  |                   |     |
| Castle Richmond   | 250   | Pretty miniature with woven carbon fibre cone, forward balance is not ideal for surround channel application   | ns 17,33,20                     |                | 91      | 8          | 55      | •     |                  |                   |     |
| Castle Inversion 15                                     | 425   | This striking looking stand-mount is a good allrounder, commendably free from boxiness   | 19-22,42,25                     |                | 91      | 4          | 30      |       | •                |                   |     |
| Castle Kendal   | 500   | A beautifully finished compact floorstander with a decidedly forward but communicative sound   | 17,76,20                        |                | 86      | 6          | 45      |       | •                | 2204              |     |
| Castle Severn 2   | 539   | Carbon fibre cone gives lovely, subtle midband but treble is a bit dull and bass a bit thumpy  | 21,84,25                        | •              | 87      | 8          | 30      | •     |                  | 2120              |     |
| Castle Harlech  | 880   | Handsome big-sounding floorstander, great value and dynamic midrange   | 20,96,33                        | •              | 88      | 8          | 28      | •     |                  | 1820              |     |
| Castle Inversion 100                                    | 1,975 | Large semi-omni design with gorgeous Art Deco styling, sounds open but bass alignment is ill-tuned   | 26.5,111,45                     | •              | 91      | 8          | 20      |       | •                |                   |     |
| Celestion 12i   | 119   | Not without virtue, but the relentless enthusiasm and mid-band colorations can become wearing  | 19,31,21                        |                | 88      | 6          | 45      |       | •                | 2254              |     |
| Celestion 23i   | 300   | Cosmetically flawed, but the bottom end has fine get-up-and-go, and works well with dance tracks   | 24,86,27                        |                | 89      | 6          | 30      | •     |                  | 2200              |     |
| Celestion A Compact                                     | 600   | Provided the room isn't too large, and your tastes not too heavy, this is a charming little number   | 17,24,21                        |                | 90      | 3          | 45      |       | •                |                   |     |
| Celestion A1  | 899   | Rich, warm and laid-back, but a true quality sound; lovely build   | 24,41,35                        |                | 88      | 6          | 25      | •     |                  | 1910              | Ī   |
| Celestion A2  | 1,500 | Full scale, big sound from ultra-elegant floorstander. Smooth and slightly laid back presentation  | 24,93,39                        | •              | 89      | 6          | 22      |       | •                |                   | Ī   |
| Chario Syntar 100                                       | 249   | Pretty with a pleasantly easygoing balance, but not the most communicative or exciting sound around  | 18,32,27                        |                | 87      | 6          | 45      | •     |                  | 2020              |     |
| Chario Hiper 1000                                       | 300   | Classy looking stand mount has a sweet, easygoing sound with fine midband voicing  | 18,35,28                        |                | 87      | 4          | 45      | •     |                  |                   | f   |
| Chario Constellation Lynx                               | 550   | Beautiful near-miniature is let down by a midband too laid back for its own good   | 20,36,26                        |                | 87      | 3          | 40      | •     | 777              |                   |     |
| Chario Academy Millennium                               |       | Price includes stands. A showy speaker that lives up to its own hype   | 22,53,35                        |                | 90      | 4          | 55      |       |                  |                   |     |
| Dali 606  | 400   | A big bruiser at a tempting price. Sounds refined and polite, but also packs some punch  | 22,97,32                        |                | 91      | 4          | 25      | -     |                  | 2121              | -   |
| Dali Royal Menuet MkII                                  | 400   | Classy sub-miniature with a beautiful box and fine ingredients, but a little lacking in subtlety and excitement  | 16,26,18                        |                | 87      | 3          | 50      |       | •                | 4141              |     |
|   |       | Pricey, but undoubtedly one of the better centre-front speakers around, with fine timing and open voicing  |                                 |                | 90      | 4          | 40      | •     |                  |                   | -   |
| Definitive Technology CLR200 Definitive Technology BP2X | 595   | Pricey, but and obtain on the better centre-none speakers around, with nine timing and open voicing.  Pricey but effective bi-polar surround speaker, with unusually high sensitivity.   | 23,37,15                        | 1000           | 94      | 4          | 120     |       | •                |                   |     |
| 01  |       | Pricey bi-polar floorstander has a fine midband, let down by its built-in powered subwoofer  |                                 | •              | 91      | 5          | 28      | •     |                  |                   | H   |
| Definitive Technology BP200                             | _     |  | 19,104,31                       |                |         | 4          | 40      |       | •                | 2205              | H   |
| Dynaudio Audience 5                                     | 400   | Follows the Dynaudio tradition for fine midband transparency, but the overall timbre is a bit thin   | 20,31,26                        | 200            | 85      | 4          |         |       |                  | 2205              | H   |
| Dynaudio Audience 40                                    | 400   | Classy engineering content creates a winning combination of neutrality, dynamic range and involvemen   |                                 | 1000           | 87      | 4          | 40      |       |                  |                   | H   |
| Dynaudio LR/C 120                                       | 439   | Slim centre and front stand-mount, has an evenhanded but rather laid back balance but lacks drive  | 16.5,57,31                      | 100            | 89      | 5          | 25      | •     |                  | 2122              | -   |
| Dynaudio Audience 50                                    | 577   | This stand-mount doesn't look big, but sound quality can match many models at twice the price  | 20,33,25                        |                | 86      | 4          | 30      | •     |                  | 2122              | L   |
| Dynaudio Audience 70                                    | 1,100 | A highly competent and neutral speaker, but pricey for vinyl finish, and doesn't quite drag you into the music   |                                 | •              | 88      | 6          | 20      | •     |                  |                   |     |
| Dynaudio Contour 1.8 Mkll                               | 1,842 | Wonderful voice-band delicacy and loads of deepb ass from a very elegant and compact box   | 21,95,29                        | •              | 85      | 4          |         | •     |                  | 1986              | L   |
| ELAC CL 102 II  | 599   | Chunky floorstander with classy drivers has a neutral, slightly 'shiny' character, and could have more punch   | 20,95,28                        | •              | 88      | 9          | 23      | •     |                  |                   |     |
| Elac CL 310i Jet  | 800   | It's pricey, and you can buy better performance for the money. Small speaker, good sound   | 12.3,20.8,28.                   | 2              | 86      | 4          |         | •     |                  |                   | L   |
| Eltax Liberty 3+  | 150   | Bright, bassy, laid back and attractively evenhanded, but dynamically challenged. Big box for your dosh  | 20.5,38,34                      |                | 86      | 4          | 25      | •     |                  |                   |     |
| Eltax Linear Response                                   | 249   | A curiously dumpy shape, but smooth, laid-back performer is easy on the ears, with fine tonal accuracy   | 25,35,32                        |                | 85      | 4          | 40      | •     |                  | 2201              |     |
| Epos ES12   | 499   | High quality luxury stand-mount has great midband and stereo imaging   | 20,38,25                        |                | 85      | 8          | 45      | •     |                  | 1823              |     |
| Epos ES25   | 1,655 | Handsome floorstander with a rather uneven and bass heavy balance  | 24,90,35                        | •              | 88      | 6          | 22      | •     |                  | 1346              |     |
| Gale 2i   | 140   | Unspectacular sound and appearance fail to help this solid little miniature stand out from the crowd   | 22,40,27                        |                | 88      | 7          | 40      |       | •                | 2021              |     |
|   |       | The same and the s | ,,                              | 10000          | -       | 5000       | 1100000 | 1     | 1000             | The second second | è   |

Great openness, speed and timing. Sounds fresh and vital, though sometimes lacks scale and weight

Attractive traditional-style near-miniature with classy main driver now has fine overall balance to match

ONTINUED

# Loudspeakers

SPECIFICATIONS

FLOORITANDER (BLASS FROM BLE)

SIZE WATER (CM)

FLOORITANDER (BLANCE (M) BLE)

| Jamo BX10 Jamo Corr Jamo Corr Jamo 477/ Jamo Corr Jamo 477/ Jamo Corr Jamo 477/ Jamo Linn Keir  Jamo Linn Keir  Jamo Linn Keir  Jamo Lass  Jamo Corr Jamo 477/ Jamo Lass  JBL LV20  JBL LV20  JBL LV30  JBL LV40  JBL SVA 21   | k Heylios k Heylo k Heylo k Ultima k Duet k Octet nree Pelta 60 eference 1i 100A ssic 8 rnet 195 7A 7A 0 10 10 10 10 10 10 10 10 10 10 10 10 1   | (6) 389 439 649 750 1,800 500 700 150 350 600 700 250 400 700 1,000 1,000 1,000 1,250 495 999 1,375 1,795 7,250 60 80 130 330   | Great all-round performance in a pretty package at a sharp price  Good vocal reproduction, but sounds thin and bass seems an afterthought  Has the bass wallop to justify its dual hi-fi/home cinema roles, but doesn't excite  Looks slightly old-fashioned, sounds a bit coloured but its fine timing and liveliness serve music well  Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband  Cute 'n' chunky standmount is an entertaining communicator. Great fun, despite some sonic weirdness  Striking and massive floorstander, lots of speaker for the price, but seems a victim of its own complexity  Although not to our tastes, this is a competent speaker, and decent material value  Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass  A lot of speaker for the money; good when playing quietly, but boom'n'tizz character sounded crude  Loads of bass, should have plenty of yoof-appeal – it looks the business, and is priced attractively  Very prettily styled, but build and sound quality are disappointing at the price  Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch  Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm  Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material  Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative  A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump  Classic, large, stanlayer end brutish styling, goes very loud as well as deep. Fine focus but some boxiness  A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude  Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble  Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small  Lively an | 19,77,28<br>22,94,37<br>22,40,27<br>21,41,30<br>26,42,28<br>175,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26  | •                                       | 89<br>91<br>90<br>90<br>88<br>88<br>87<br>92<br>86<br>86<br>88<br>94<br>91<br>91<br>91<br>93<br>92<br>90.5  | 4  | 45<br>27<br>25<br>24<br>25<br>50<br>40<br>28<br>26<br>40<br>40<br>40<br>40<br>40<br>23<br>25<br>20<br>23<br>33<br>40<br>32<br>22<br>22<br>20                         |   | •     | 1912<br>1658<br>2126<br>1403<br>1758<br>1659<br>2126<br>2022<br>1550<br>2127<br>1976 | 164<br>152<br>174<br>199<br>180<br>199<br>183<br>148<br>155<br>152<br>183<br>174<br>170<br>190<br>180<br>180<br>183<br>184<br>194<br>195<br>196<br>197<br>197<br>198<br>198<br>199<br>199<br>199<br>199<br>199<br>199<br>199<br>199 |
|--|--|---|--|---|---|---|--|--|---|-------|--|---|
| Heybrook Jamo Sor/ Jamo S | k Heylo k Ultima k Duet k Octet mree velta 60 eference 1i 100A ssic 8 met 195 7A 7A  0  100  100  100  100  100  100   | 439 649 750 1,800 500 1,800 150 350 400 350 500 700 700 1,000 1,250 1,250 295 495 999 1,375 1,795 660 80 130  | Good vocal reproduction, but sounds thin and bass seems an afterthought Has the bass wallop to justify its dual hi-fi/home cinema roles, but doesn't excite Looks slightly old-fashioned, sounds a bit coloured but its fine timing and liveliness serve music well Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband Cute 'n' chunky standmount is an entertaining communicator. Great fun, despite some sonic weirdness Striking and massive floorstander, lots of speaker for the price, but seems a victim of its own complexity Although not to our tastes, this is a competent speaker, and decent material value Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass A lot of speaker for the money; good when playing quietly, but boom'n'tizz character sounded crude Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractively Very prettily styled, but build and sound quality are disappointing at the price Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all r | 25,73,19<br>22,97,29<br>23,43,30<br>24,97,31<br>20,34,20<br>31.5,54,28<br>22,90,29<br>20.5,91,31<br>19,77,28<br>22,94,37<br>22,40,27<br>21,41,30<br>26,42,28<br>17.5,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26,5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26,5,115,47<br>18,27,17.5                  | •                                       | 88<br>89<br>88<br>90<br>86<br>90<br>90<br>90<br>90<br>88<br>88<br>88<br>87<br>91<br>91<br>91<br>91<br>91<br>91<br>91<br>91<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90                                | 6<br>11<br>6<br>17<br>4<br>6<br>8<br>4<br>3<br>3<br>8<br>5<br>8<br>8<br>8<br>4<br>4<br>4<br>4<br>5<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9  | 30<br>45<br>27<br>25<br>24<br>25<br>50<br>40<br>40<br>30<br>40<br>23<br>25<br>20<br>30<br>40<br>23<br>25<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 |   |       | 1403<br>1758<br>1659<br>1549<br>2126<br>2022<br>1550<br>2127<br>1976                 | 152<br>174<br>199<br>180<br>199<br>183<br>148<br>155<br>152<br>183<br>138<br>174<br>170<br>193<br>138<br>146<br>199<br>199<br>199<br>199<br>199<br>199<br>199<br>199<br>199<br>19   |
| Heybrook Jamo BXIC Jamo Carr Jamo 477/ Jamo 507/ Jamo 507/ Jamo 507/ Jamo 507/ Jamo 507/ Jamo 507/ Jamo 477/ Jamo 507/ JBL L20 JBL L20 JBL L20 JBL L312 I JBL SVA 21 J | k Ultima k Duet k Octet nree Pelta 60 Peference 1i 1000A SSIC 8 PROTECT 195 PA   | 649 750 1,800 500 1,800 150 350 400 350 500 700 700 1,000 1,250 1,550 295 495 999 1,375 660 80 130  | Has the bass wallop to justify its dual hi-fi/home cinema roles, but doesn't excite  Looks slightly old-fashioned, sounds a bit coloured but its fine timing and liveliness serve music well Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband Cute 'n' chunky standmount is an entertaining communicator. Great fun, despite some sonic weirdness Striking and massive floorstander, lots of speaker for the price, but seems a victim of its own complexity Although not to our tastes, this is a competent speaker, and decent material value Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass A lot of speaker for the money, good when playing quietly, but boom'n'tizz character sounded crude Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractively Very prettily styled, but build and sound quality are disappointing at the price Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial hom tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount threeway is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but s | 22,97,29<br>23,43,30<br>24,97,31<br>23,30.5,32<br>16-29,115,41<br>20,34,20<br>31.5,54,28<br>22,90,29<br>20.5,91,31<br>19,77,28<br>22,94,37<br>22,40,27<br>21,41,30<br>26,42,28<br>17.5,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26,5115,47<br>18,27,17.5 | •                                       | 89<br>88<br>90<br>86<br>90<br>90<br>90<br>90<br>88<br>88<br>88<br>87<br>92<br>86<br>86<br>88<br>94<br>91<br>91<br>91<br>91<br>92<br>93<br>93<br>93<br>99<br>90.5<br>90.5<br>90.5<br>90.5<br>90.5<br>90.5<br>90.5<br>9 | 6<br>11<br>6<br>17<br>4<br>6<br>8<br>4<br>3<br>3<br>8<br>5<br>8<br>8<br>8<br>4<br>4<br>4<br>4<br>5<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9  | 45<br>27<br>25<br>24<br>25<br>50<br>40<br>28<br>26<br>40<br>40<br>40<br>40<br>40<br>23<br>25<br>20<br>23<br>33<br>40<br>32<br>22<br>22<br>20                         |   |       | 1403<br>1758<br>1659<br>1549<br>2126<br>2022<br>1550<br>2127<br>1976                 | 1744<br>1999<br>180<br>1999<br>183<br>1488<br>155<br>152<br>183<br>174<br>170<br>193<br>138<br>138<br>174<br>167<br>190<br>180<br>143<br>183<br>193<br>193<br>193<br>193<br>193<br>193<br>193<br>193<br>193<br>19                   |
| Heybrook Jamo STA Jamo STA Jamo Gass Jamo Corr Jamo 477/ Jamo 507/ JBL LX20 JBL LX30 | k Duet k Octet  A Cotet  A Cot | 750 750 750 750 750 750 750 750 750 750   | Looks slightly old-fashioned, sounds a bit coloured but its fine timing and liveliness serve music well Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband Cute 'n' chunky standmount is an entertaining communicator. Great fun, despite some sonic weirdness Striking and massive floorstander, lots of speaker for the price, but seems a victim of its own complexity Although not to our tastes, this is a competent speaker, and decent material value Offening a cracking output for their size, these rock boxes can be a bit bright but have decent bass A lot of speaker for the money; good when playing quietly, but boom'n'tizz character sounded crude Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractively Very prettily styled, but build and sound quality are disappointing at the price Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, | 23,43,30<br>24,97,31<br>23,30,5,32<br>16-29,115,41<br>20,34,20<br>31.5,54,28<br>22,90,29<br>20.5,91,31<br>19,77,28<br>22,94,37<br>22,40,27<br>21,41,30<br>26,42,28<br>175,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26,5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26,5,115,47<br>18,27,17.5             | •                                       | 88<br>90<br>86<br>90<br>89<br>91<br>90<br>90<br>88<br>88<br>87<br>92<br>86<br>86<br>88<br>89<br>91<br>91<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90  | 111<br>6<br>177<br>4<br>6<br>8<br>4<br>3<br>4<br>3<br>8<br>5<br>8<br>8<br>4<br>4<br>4<br>8<br>6<br>6<br>4<br>4<br>4<br>4<br>5<br>5<br>7<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8   | 27<br>25<br>24<br>25<br>50<br>40<br>28<br>26<br>40<br>40<br>40<br>23<br>25<br>25<br>20<br>23<br>33<br>40<br>32<br>22<br>22<br>20                                     | •                                       |       | 1403<br>1758<br>1659<br>1549<br>2126<br>2022<br>1550<br>2127<br>1976                 | 1999<br>1800<br>1999<br>1833<br>1488<br>1555<br>1522<br>1833<br>1744<br>1700<br>1931<br>1388<br>1744<br>1677<br>1900<br>1800<br>1433<br>1833<br>1933  |
| Heybrook Indigo Thr Infinity De Infinity Ref Jamo BXIG Jamo Corr Jamo 477/ Jamo 507/ Jamo 100 JBL LX0 JBL LX0 JBL LX0 JBL LX0 JBL SVA15 JBL L40  | k Octet  hree lelta 60 eference 1i 100A ssic 8 rriet 195 7A 7A  500  santal 507 antal 515 obalt 815 bectral 909.1 ectra 915 ezzo Utopia Monitor d Monitor d Monitor d Monitor  | 1,800<br>500<br>700<br>150<br>350<br>400<br>350<br>500<br>700<br>250<br>1,000<br>1,000<br>1,250<br>295<br>495<br>999<br>1,375<br>1,795<br>66<br>60<br>80<br>130                     | Good-looking but pricey floorstander with novel drivers and a fine ceramic-enclosure midband Cute 'n' chunky standmount is an entertaining communicator. Great fun, despite some sonic weirdness Striking and massive floorstander, lots of speaker for the price, but seems a victim of its own complexity Although not to our tastes, this is a competent speaker, and decent material value Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass A lot of speaker for the money; good when playing quietly, but boom'n'tizz character sounded crude Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractively Very prettily styled, but build and sound quality are disappointing at the price Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but d | 24,97,31<br>23,30.5,32<br>16-29,115,41<br>20,34,20<br>31.5,54,28<br>22,90,29<br>20.5,91,31<br>19,77,28<br>22,94,37<br>22,40,27<br>21,41,30<br>26,42,28<br>175,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26,594,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26,5,106,36<br>35,115,47                           | •                                       | 90<br>86<br>90<br>89<br>91<br>90<br>90<br>88<br>88<br>88<br>86<br>86<br>88<br>94<br>91<br>91<br>91<br>93<br>92<br>90.5<br>90<br>90<br>90<br>90  | 6<br>17<br>4<br>6<br>8<br>4<br>3<br>4<br>3<br>8<br>8<br>5<br>8<br>8<br>4<br>4<br>4<br>8<br>6<br>6<br>4<br>4<br>4<br>5<br>5<br>7<br>8<br>8<br>8<br>8<br>4<br>4<br>4<br>4<br>4<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8 | 25<br>24<br>25<br>50<br>40<br>28<br>26<br>40<br>40<br>30<br>40<br>23<br>25<br><20<br>23<br>33<br>40<br>32<br>22<br>22  | • |       | 1758<br>1659<br>1549<br>2126<br>2022<br>1550<br>2127<br>1976                         | 180<br>199<br>183<br>148<br>155<br>152<br>183<br>138<br>174<br>170<br>193<br>138<br>167<br>190<br>180<br>143<br>183<br>193  |
| Indigo Thr Infinity De Infinity Ref Jamo BXIG Jamo Corr Jamo Cass Jamo Corr Jamo SO7/ JBL LV2 JBL LV2 JBL LV2 JBL LV3 JBL LV3 JBL LV3 JBL LV3 JBL LV3 JBL LV3 JBL SVA 12 JBL SVA 12 JBL SVA 12 JBL SVA 13  | price pelta 60 peference 1i 100A peference 1i 100A perence 1i  | 500<br>700<br>150<br>350<br>400<br>700<br>250<br>400<br>700<br>700<br>1,000<br>1,250<br>1,1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>660<br>80<br>130                   | Cute 'n' chunky standmount is an entertaining communicator. Great fun, despite some sonic weirdness Striking and massive floorstander, lots of speaker for the price, but seems a victim of its own complexity Although not to our tastes, this is a competent speaker, and decent material value  Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass  A lot of speaker for the money, good when playing quietly, but boom'n'tizz character sounded crude  Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractively  Very prettily styled, but build and sound quality are disappointing at the price  Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch  Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm  Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material  Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative  A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump  Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance  Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll  Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness  A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude  Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble  Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small  Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript  Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics  Multi-driver array in a large and ver | 23,30.5,32<br>16-29,115,41<br>20,34,20<br>31.5,54,28<br>22,90,29<br>20.5,91,31<br>19,77,28<br>22,94,37<br>21,41,30<br>26,42,28<br>17,551,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,110,36<br>35,115,47<br>18,27,17.5                                    | •                                       | 86<br>90<br>89<br>91<br>90<br>90<br>88<br>88<br>87<br>92<br>86<br>86<br>88<br>89<br>91<br>91<br>91<br>93<br>92<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90  | 17<br>4<br>6<br>8<br>4<br>3<br>4<br>3<br>8<br>8<br>5<br>8<br>8<br>4<br>4<br>4<br>8<br>6<br>6<br>4<br>4<br>4<br>7<br>9<br>1<br>9<br>1<br>9<br>1<br>9<br>1<br>9<br>1<br>9<br>1<br>9<br>1<br>9<br>1<br>9<br>1<br>9                | 24<br>25<br>50<br>40<br>28<br>26<br>40<br>40<br>40<br>30<br>40<br>23<br>25<br><20<br>23<br>33<br>40<br>22<br>22<br>20  | •                                       |       | 1758<br>1659<br>1549<br>2126<br>2022<br>1550<br>2127<br>1976                         | 1999<br>1833<br>1488<br>1555<br>1522<br>1833<br>1388<br>1744<br>1700<br>193<br>1388<br>1744<br>1677<br>1900<br>1800<br>1433<br>1933<br>1933   |
| Infinity De Infinity De Infinity Ref Jamo Edst Jamo Cars Jamo Sor/ Jamo Jamo Jamo Jamo Jamo Jamo Jamo Jamo   | pelta 60 peference 1i 100A ssic 8 rnet 195 7A 7A 500 suital 507 pental 507 pental 507 pental 515 pobalt 815 pectral 909.1 pectra 915 pectra 915 pectra 915 pectra 916 per Monitor per Moni | 700<br>150<br>350<br>400<br>350<br>400<br>350<br>400<br>250<br>400<br>700<br>1,000<br>1,000<br>1,000<br>1,1,250<br>295<br>495<br>999<br>1,375<br>1,795<br>7,7250<br>60<br>80<br>130 | Striking and massive floorstander, lots of speaker for the price, but seems a victim of its own complexity Although not to our tastes, this is a competent speaker, and decent material value Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass A lot of speaker for the money; good when playing quietly, but boom'n'tizz character sounded crude Loads of bass, should have plenty of yoof-appeal – it looks the business, and is priced attractively Very prettily styled, but build and sound quality are disappointing at the price Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n' tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good selb but lacks delicacy and sweetness Fine headroom and bass, and classy engineering to | 16-29,115,41<br>20,34,20<br>31.5,54,28<br>22,90,29<br>20.5,91,31<br>19,77,28<br>22,40,27<br>21,41,30<br>26,42,28<br>175,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26,594,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26,5,116,36<br>35,115,47<br>18,27,17.5   | •                                       | 90<br>89<br>91<br>90<br>90<br>88<br>88<br>88<br>86<br>86<br>88<br>94<br>91<br>91<br>91<br>93<br>92<br>90.5  | 4<br>6<br>8<br>4<br>3<br>8<br>8<br>8<br>8<br>4<br>4<br>4<br>8<br>6<br>4<br>4<br>4<br>5<br>9.5<br>9.5<br>9.5<br>9.5<br>9.5<br>9.5<br>9.5<br>9.5<br>9.5<br>9   | 25<br>50<br>40<br>28<br>26<br>40<br>40<br>40<br>23<br>25<br><20<br>23<br>33<br>40<br>32<br>22<br>22<br>20  | •                                       | •     | 1758<br>1659<br>1549<br>2126<br>2022<br>1550<br>2127<br>1976                         | 183<br>148<br>155<br>152<br>183<br>174<br>170<br>193<br>138<br>174<br>167<br>190<br>180<br>183<br>193   |
| Infinity Ref Jamo BX10 Jamo Cass Jamo Corr Jamo S076 JBL LX2 JBL Ti200 JBL LX0 JBL L40 JBL 4312 I JBL SVA15 JBL L40 JBL 4312 I JBL SVA 21 JBL S | eference 1i 100A ssic 8 rnet 195 7A 7A  500  III 2100  antal 507 antal 515 obalt 815 ectral 909.1 ectra 915 elezzo Utopia id Monitor d Monitor d Monitor d Monitor d Monitor   | 150<br>350<br>400<br>350<br>500<br>700<br>700<br>400<br>700<br>1,000<br>1,000<br>1,1,250<br>295<br>495<br>999<br>1,375<br>1,795<br>660<br>80<br>130                                 | Although not to our tastes, this is a competent speaker, and decent material value Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass A lot of speaker for the money; good when playing quietly, but boom'n'tizz character sounded crude Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractively Very prettily styled, but build and sound quality are disappointing at the price Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and bruish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speake | 20,34,20<br>31.5,54,28<br>22,90,29<br>20.5,91,31<br>19,77,28<br>22,94,37<br>21,41,30<br>26,42,28<br>175,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>21,00,36<br>35,115,47  | •                                       | 89<br>91<br>90<br>90<br>88<br>88<br>87<br>92<br>86<br>86<br>88<br>94<br>91<br>91<br>91<br>93<br>92<br>90.5  | 6<br>8<br>4<br>3<br>8<br>8<br>5<br>8<br>8<br>4<br>4<br>4<br>4<br>5<br>9.5<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4   | 50<br>40<br>28<br>26<br>40<br>40<br>40<br>30<br>40<br>23<br>25<br>20<br>23<br>33<br>40<br>32<br>22<br>20   | •                                       |       | 1758<br>1659<br>1549<br>2126<br>2022<br>1550<br>2127<br>1976                         | 1488<br>1555<br>1522<br>1833<br>1388<br>1744<br>1700<br>1933<br>1388<br>1744<br>1677<br>1900<br>1800<br>1433<br>1933  |
| Jamo BX10 Jamo Corr Jamo Corr Jamo 477/ Jamo Corr Jamo 477/ Jamo Corr Jamo 477/ Jamo Linn Keir  Jamo Linn Keir  Jamo Linn Keir  Jamo Lass  Jamo Corr Jamo 477/ Jamo Lass  JBL LV20  JBL LV20  JBL LV30  JBL LV40  JBL SVA 21   | 1000A ssic 8 rret 195 rA rA 7A  500  111 2100  2100  2110  2100  2111 2100  2111 2100  2111 2100  2111 2100  2111 2100  2111 2110 2 | 350<br>400<br>350<br>500<br>700<br>700<br>700<br>1,000<br>1,250<br>1,550<br>295<br>495<br>999<br>1,375<br>1,795<br>60<br>80<br>80   | Offering a cracking output for their size, these rock boxes can be a bit bright but have decent bass  A lot of speaker for the money; good when playing quietly, but boom'n'tizz character sounded crude Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractively Very prettily styled, but build and sound quality are disappointing at the price Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Imvigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even beetter. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way Mor | 31.5,54,28<br>22,90,29<br>20.5,91,31<br>19,77,28<br>22,94,37<br>21,41,30<br>26,42,28<br>17.5,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,115,47<br>18,27,17.5  | •                                       | 91<br>90<br>90<br>88<br>88<br>88<br>86<br>86<br>88<br>94<br>91<br>91<br>91<br>93<br>92<br>90.5  | 8<br>4<br>3<br>4<br>3<br>8<br>5<br>8<br>8<br>4<br>4<br>4<br>4<br>5<br>9.5<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4   | 40<br>28<br>26<br>40<br>40<br>40<br>30<br>40<br>23<br>25<br><20<br>23<br>33<br>40<br>32<br>22<br>22<br>22<br>20  | •                                       |       | 1758<br>1659<br>1549<br>2126<br>2022<br>1550<br>2127<br>1976                         | 155<br>152<br>183<br>138<br>174<br>170<br>193<br>138<br>174<br>167<br>190<br>180<br>143<br>183<br>193   |
| Jamo Corr Jamo 477/ Jamo 507/ Jamo 507/ JBL LY20 JBL LY20 JBL LY0 JBL L40 JBL L40 JBL SVA 15 JBL L40 JBL L40 JBL L50 J | rnet 195 7A 7A 50 500 500 601 601 601 601 601 601 601 601 601 6  | 400<br>350<br>500<br>700<br>250<br>700<br>700<br>700<br>1,000<br>1,250<br>295<br>495<br>999<br>1,375<br>1,795<br>60<br>80<br>130  | A lot of speaker for the money; good when playing quietly, but boom'n'tizz character sounded crude Loads of bass, should have plenty of yoof-appeal — it looks the business, and is priced attractively Very prettily styled, but build and sound quality are disappointing at the price Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount threeway is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way  More informative than Mini Monitor — but fiercer, too  | 22,90,29<br>20.5,91,31<br>19,77,28<br>22,94,37<br>22,40,27<br>21,41,30<br>26,42,28<br>17.5,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5   | •                                       | 90<br>90<br>88<br>88<br>88<br>87<br>92<br>86<br>88<br>94<br>91<br>91<br>93<br>92<br>90.5<br>90  | 3<br>4<br>3<br>8<br>8<br>8<br>8<br>4<br>4<br>4<br>8<br>6<br>4<br>4<br>5<br>9.5<br>4<br>4   | 26<br>40<br>40<br>40<br>40<br>30<br>40<br>23<br>25<br><20<br>23<br>33<br>40<br>32<br>22<br>22<br>22  | •                                       |       | 1659<br>1549<br>2126<br>2022<br>1550<br>2127<br>1976                                 | 152<br>183<br>138<br>174<br>170<br>193<br>138<br>174<br>167<br>190<br>180<br>143<br>183<br>193  |
| Jamo 477// Jamo 507// Jalo Tizoo JBL L20 JBL L20 JBL L40 JBL SVA15 JBL L40 JBL SVA15 JBL L40 JBL LX70 JBL LX | 7A 7A 7A 7A 7A 7A 75 75 75 75 75 75 75 75 75 75 75 75 75   | 500<br>700<br>250<br>400<br>700<br>700<br>1,000<br>1,250<br>1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130   | Very prettily styled, but build and sound quality are disappointing at the price Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Cood scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor — but fiercer, too  | 20.5,91,31<br>19,77,28<br>22,94,37<br>22,40,27<br>21,41,30<br>26,42,28<br>17.5,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47   | •                                       | 88<br>88<br>87<br>92<br>86<br>86<br>88<br>94<br>91<br>91<br>93<br>92<br>90.5<br>90  | 4<br>3<br>8<br>5<br>8<br>8<br>4<br>4<br>4<br>5<br>9.5<br>4<br>4  | 40<br>40<br>40<br>30<br>40<br>23<br>25<br><20<br>23<br>33<br>40<br>32<br>22<br>20  | •                                       |       | 2126<br>2022<br>1550<br>2127<br>1976   | 138<br>174<br>170<br>193<br>138<br>174<br>167<br>190<br>180<br>143<br>183<br>193  |
| Jamo 507/4  Jamo 507/4  Jamo 507/4  Jal Lt20  Jal Lt20  Jal Lt20  Jal Lt40   | 500  Sili 1 1 2 100  Soundal 507  Soundal 507  Soundal 515  Sobolt 815  Socctral 909.1  Sectra 915  Sectral 915  Sectral 915  Sectral 916  Soundal Monitor  Sou | 700<br>250<br>400<br>700<br>700<br>1,000<br>1,000<br>1,250<br>1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130                                       | Imaginative styling keeps the front view super slim yet still it packs a punch. Glass top is a nice touch Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm. Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material. Pricey, heavy and a bit laid back, but this is a fine rock 'n'roller which is dynamic and communicative. A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump. Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance. Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll. Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness. A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude. Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble. Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript. Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics. Multi-driver array in a large and very substantial enclosure. Cood scale but lacks delicacy and sweetness. Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy. Looks good and sounds even better. A genuinely big speaker with fantastic coherence. Ultra-cheap miniature works well in a limited way.  More informative than Mini Monitor — but fiercer, too  | 22,94,37<br>22,40,27<br>21,41,30<br>26,42,28<br>175,51,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26,5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26,5,106,36<br>35,115,47<br>18,27,17.5  | •                                       | 88<br>87<br>92<br>86<br>86<br>88<br>94<br>91<br>91<br>93<br>92<br>90.5<br>90  | 3<br>8<br>5<br>8<br>8<br>4<br>4<br>8<br>6<br>4<br>4<br>5<br>9.5<br>4<br>4  | 40<br>40<br>30<br>40<br>23<br>25<br>20<br>23<br>33<br>40<br>32<br>22<br>22   | •                                       |       | 2126<br>2022<br>1550<br>2127<br>1976   | 174<br>170<br>193<br>138<br>174<br>167<br>190<br>180<br>143<br>183<br>193   |
| JBL LX2   JBL Ti200   JBL LX2   JBL Ti200   JBL SVA15   JBL L40   JBL 4312   JBL SVA15   JPW ML51     | 500  III 2100  antal 507  antal 515  obalt 815  ectra 915  ectra 915  ectra 916  Monitor  d Monitor  d Monitor  d Monitor  | 250<br>400<br>700<br>700<br>1,000<br>1,000<br>1,250<br>1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130  | Invigorating, if a touch crude, this good-hearted speaker reproduces music with considerable enthusiasm Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way  More informative than Mini Monitor — but fiercer, too  | 22,40,27<br>21,41,30<br>26,42,28<br>17,5,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26,5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26,5,106,36<br>35,115,47   | • | 87<br>92<br>86<br>86<br>88<br>94<br>91<br>91<br>93<br>92<br>90.5<br>90  | 8<br>5<br>8<br>8<br>4<br>4<br>8<br>6<br>4<br>4<br>5<br>9.5<br>4<br>4   | 40<br>40<br>30<br>40<br>23<br>25<br><20<br>23<br>33<br>40<br>32<br>22<br>20  | •                                       |       | 1550<br>2127<br>1976   | 170<br>193<br>138<br>174<br>167<br>190<br>180<br>143<br>183   |
| JBL Ti200  JBL L120  JBL L20  JBL SVA15  JBL L4312  JBL 4312  JBL  | antal 507 antal 507 antal 515 abalt 815 actral 909.1 actral 915 actral 915 actral 900 administration of the second | 400<br>700<br>700<br>1,000<br>1,000<br>1,250<br>1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130   | Very substantial stand-mount knows how to rock and roll, but can sound uncouth on more delicate material Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor — but fiercer, too   | 21,41,30<br>26,42,28<br>175,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47  | •                                       | 92<br>86<br>86<br>88<br>94<br>91<br>91<br>93<br>92<br>90.5<br>90  | 5<br>8<br>8<br>4<br>4<br>8<br>6<br>4<br>4<br>5<br>9.5<br>4   | 40<br>30<br>40<br>23<br>25<br><20<br>23<br>33<br>40<br>32<br>22<br>20  | •                                       |       | 1550<br>2127<br>1976   | 193<br>138<br>174<br>167<br>190<br>180<br>143<br>183<br>193   |
| JBL L20 JBL SVA15 JBL L40 JBL 4312 I JBL SVA 21 JBL SVA | antal 507 antal 507 antal 515 abalt 815 actral 909.1 actral 915 actral 915 actral 900 administration of the second | 700<br>700<br>1,000<br>1,000<br>1,250<br>1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130  | Pricey, heavy and a bit laid back, but this is a fine rock'n'roller which is dynamic and communicative A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor — but fiercer, too  | 26,42,28<br>175,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5  | •                                       | 86<br>86<br>88<br>94<br>91<br>91<br>91<br>93<br>92<br>90.5<br>90  | 8<br>8<br>4<br>4<br>8<br>6<br>4<br>4<br>5<br>9.5<br>4<br>4   | 30<br>40<br>23<br>25<br><20<br>23<br>33<br>40<br>32<br>22<br>20  | •                                       |       | 2127<br>1976   | 138<br>174<br>167<br>190<br>180<br>143<br>183<br>193  |
| JBL SVA15  JBL L40  JBL 4312 I  JBL SVA 21  JBL LY70  JBL LY70  JMLab Tan  JMLab Tan  JMLab Tan  JMLab Tan  JMLab Tan  JMLab Me  JPW Moid  JPW ML91  JPW RUBY  JPW RUBY  KEF COda  KEF COda  KEF COda  KEF Q15  KEF Q15  KEF Q60  KEF RDM  KEF RDM  KEF REfere  Linn Kan  Linn Kan   | antal 507 Intal 515 obalt 815 octral 909.1 ectral 915 eezzo Utopia Monitor d Monitor   | 700<br>1,000<br>1,000<br>1,250<br>1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80  | A distinctive Pro-style bi-radial horn tweeter, with a fun sound, enlivened by a juicy bass thump Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor — but fiercer, too   | 17.5,51,31<br>30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5   | •                                       | 86<br>88<br>94<br>91<br>91<br>91<br>93<br>92<br>90.5<br>90  | 8<br>4<br>4<br>8<br>6<br>4<br>4<br>5<br>9.5<br>4   | 40<br>23<br>25<br><20<br>23<br>33<br>40<br>32<br>22<br>20  | •                                       |       | 2127<br>1976   | 174<br>167<br>190<br>180<br>143<br>183<br>193   |
| IBL L40 IBL 4312 I IBL SVA 21 IBL L90 IBL LY70 IMLab Tar | antal 507 Intal 515 obalt 815 octral 909.1 ectral 915 eezzo Utopia Monitor d Monitor   | 1,000<br>1,000<br>1,250<br>1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80   | Classic, large, stand-mount three-way is full of vim and vigour, with a superb sense of balance Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor — but fiercer, too   | 30,65,31<br>36,60,30<br>37,114,52<br>24,94,35<br>26,5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26,5,106,36<br>35,115,47<br>18,27,17.5   | •                                       | 88<br>94<br>91<br>91<br>91<br>93<br>92<br>90.5<br>90  | 4<br>4<br>8<br>6<br>4<br>4<br>5<br>9.5<br>4  | 23<br>25<br>20<br>23<br>33<br>40<br>32<br>22<br>20   | •                                       |       | 1976   | 167<br>190<br>180<br>143<br>183<br>193  |
| JBL 4312 I JBL SVA 21 JBL LY70 JMLab Tar JPW ML51 JPW ML91 JPW RUby KEF Coda KEF Coda KEF Coda KEF Coda KEF Coda KEF Coda KEF ROM KEF REfere KESWICK A Linn Kan Linn | antal 507 Intal 515 Intal  | 1,000<br>1,250<br>1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130   | Crude but startlingly effective dynamics. The original party animal knows just how to rock'n'roll Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way  More informative than Mini Monitor — but fiercer, too  | 36,60,30<br>37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5   | •                                       | 94<br>91<br>91<br>91<br>93<br>92<br>90.5<br>90  | 4<br>8<br>6<br>4<br>4<br>5<br>9.5<br>4<br>4  | 25<br><20<br>23<br>33<br>40<br>32<br>22<br>20  | •                                       |       |  | 190<br>180<br>143<br>183<br>193   |
| JBL SVA 21 JBL LY70 JBL LY70 JBL LY70 JBL LY70 JBL LY70 JMLab Tan JMLab Tan JMLab Spe JMLab Ele JMLab Spe JMLab Ele JMLab Me JPW MID JPW ML0 JPW ML0 JPW ML0 JPW ML0 JPW ML0 KEF Coda KEF COda KEF COda KEF COda KEF ROM KEF ROM KEF REFE KESWICK A KESWICK A Linn Kan Linn Kan  | antal 507 Intal 515 Intal  | 1,250<br>1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130  | Monstrously large and brutish styling, goes very loud as well as deep. Fine focus but some boxiness A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Cood scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way  More informative than Mini Monitor — but fiercer, too  | 37,114,52<br>24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5   | •                                       | 91<br>91<br>93<br>92<br>90.5<br>90  | 8<br>6<br>4<br>4<br>5<br>9.5<br>4<br>4   | 20<br>23<br>33<br>40<br>32<br>22<br>20   | •                                       |       | 1348   | 180<br>143<br>183<br>193  |
| JBL L90  JBL LX70  JMLab Tar  JML | antal 507 Intal 515 Intal 515 Intal 515 Intal 515 Intal 515 Intel  | 1,500<br>550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130   | A classic monitor which communicates with gusto and enthusiasm, though it can sound a bit crude Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Cood scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor — but fiercer, too   | 24,94,35<br>26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,175   | •                                       | 91<br>91<br>93<br>92<br>90.5<br>90  | 6<br>4<br>4<br>5<br>9.5<br>4<br>4  | 23<br>33<br>40<br>32<br>22<br>20   | •                                       | •     | 1348   | 143<br>183<br>193   |
| JBL LX70  JMLab Tar  JMLab Sar  JMLab Sar  JMLab Sle  JMLab Me  JPW Mini)  JPW Muby  KEF Coda  KEF Coda  KEF Coda  KEF Coda  KEF Coda  KEF Coda  KEF RDM  KEF REF  KEF RDM  KEF REF  KEF RDM  KEF REF  Linn Kan  Linn Kan  | antal 507 untal 515 obalt 815 ocertal 909.1 ectra 915 leezzo Utopia l Monitor d Monitor d Monitor  | 550<br>295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130  | Bassmeister supreme, shame the rest doesn't match up. Fine sensitivity but an itchy scratchy treble Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way  More informative than Mini Monitor — but fiercer, too  | 26.5,94,30<br>21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5  | •                                       | 91<br>93<br>92<br>90.5<br>90  | 4<br>4<br>5<br>9.5<br>4<br>4   | 33<br>40<br>32<br>22<br>20   | •                                       | •     | 1548   | 183<br>193  |
| JMLab Tar JMLab Tar JMLab Spe JMLab Ele JMLab Ele JMLab Me JPW Mini JPW Gold JPW ML51 JPW Ruby FW Ruby KEF Coda KEF Coda KEF Coda KEF RDM Linn Kelid Linn Kan Linn Kan   | antal 507<br>untal 515<br>obalt 815<br>pectral 909.1<br>ectra 915<br>leezzo Utopia<br>Monitor<br>d Monitor   | 295<br>495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130   | Competent all rounder, this compact stand-mount has a good heart and sweet treble, but sounds a bit small Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way  More informative than Mini Monitor — but fiercer, too  | 21,38,27<br>20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5  | •                                       | 93<br>92<br>90.5<br>90  | 4<br>5<br>9.5<br>4<br>4  | 40<br>32<br>22<br>20   | •                                       | •     |  | 193   |
| JMLab Tan JMLab Col JMLab Spe JMLab Ele JMLab Me JMLab Me JPW Mini M JPW ML91 JPW Ruby JPW Ruby KEF Coda KEF Coda KEF Coda KEF COda KEF QGB KEF RDM ( KEF QGB KEF RDM ( KEF QGB KEF RDM ( KEF REfere   | ental 515 obalt 815 obalt 815 oectral 909.1 ectra 915 lezzo Utopia d Monitor d Monitor   | 495<br>999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130  | Lively and open if bright. Sound is entertaining and informative, but presentation is nondescript  Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics  Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness  Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy  Looks good and sounds even better. A genuinely big speaker with fantastic coherence  Ultra-cheap miniature works well in a limited way  More informative than Mini Monitor — but fiercer, too   | 20,94,26<br>22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5  | •                                       | 92<br>90.5<br>90<br>92  | 5<br>9.5<br>4<br>4   | 32<br>22<br>20   | •                                       |       |  |   |
| JMLab Col JMLab Spe JMLab Ele JMLab Be JMLab Be JMLab Me JPW Mini JPW Mini JPW ML91 JPW ML91 JPW ML91 JPW Ruby KEF Coda KEF Coda KEF COda KEF Q15 KEF Q65 KEF Q65 KEF RDM KEF REFE KEF ROM KEF REFE KEF ROM KEF REFE KEF ROM KEF REFE Linn Keil Linn Keil  | obalt 815 pectral 909.1 ectra 915 lezzo Utopia i Monitor d Monitor i10   | 999<br>1,375<br>1,795<br>7,250<br>60<br>80<br>130   | Hefty real-wood floorstander has a slight 'boom'n'tizz' character but delivers big speaker grip and dynamics Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor – but fiercer, too   | 22,100,31<br>27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5  | •                                       | 90.5<br>90<br>92  | 9.5<br>4<br>4  | 22 20  | •                                       |       |  | 183   |
| JMLab Spe JMLab Spe JMLab Spe JMLab Elei JMLab Me JPW Min M JPW Gold JPW ML5I JPW ML5I JPW ML5I JPW ML9I JPW Ruby KEF Coda KEF Coda KEF Coda KEF COda KEF ROM KEF ROM KEF REFE KEF KOM KEF REFE KESwick A Linn Kan Linn Kan  | pectral 909.1 ectra 915 lezzo Utopia Monitor d Monitor i10   | 1,375<br>1,795<br>7,250<br>60<br>80<br>130  | Multi-driver array in a large and very substantial enclosure. Good scale but lacks delicacy and sweetness Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor — but fiercer, too  | 27,107,35<br>26.5,106,36<br>35,115,47<br>18,27,17.5   | •                                       | 90<br>92  | 4  | 20   | -                                       |       |  | 199   |
| JMLab Elec JMLab Me JPW Mini JPW Gold JPW ML91 JPW ML91 JPW Ruby JPW Ruby KEF Coda KEF Coda KEF Coda KEF QOS KEF ROM KEF ROSS KEF ROM KEF Refere Keswick At Linn Kan Linn Kan  | ectra 915 ezzo Utopia Monitor d Monitor i10 i10  | 1,795<br>7,250<br>60<br>80<br>130   | Fine headroom and bass, and classy engineering too, but also a tricky amp load which lacks delicacy Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor — but fiercer, too  | 26.5,106,36<br>35,115,47<br>18,27,17.5  | •                                       | 92  | 4  | UA COMPANY   | •                                       |       |  | 180   |
| JMLab Me JPW Mini M JPW Gold JPW ML51 JPW ML10 JPW ML91 JPW Ruby KEF Coda KEF Coda KEF Coda KEF Coda KEF Coda KEF RDM KEF RDM KEF RDM KEF RDM KEF RDM Linn Kelid Linn Kan  | ezzo Utopia Monitor d Monitor i10 110  | 7,250<br>60<br>80<br>130  | Looks good and sounds even better. A genuinely big speaker with fantastic coherence Ultra-cheap miniature works well in a limited way More informative than Mini Monitor — but fiercer, too  | 35,115,47<br>18,27,17.5   | 100                                     |   |  | (11  | •                                       |       |  | 195   |
| JPW Mini M JPW Gold JPW ML5I JPW ML9I JPW Ruby KEF Coda KEF Coda KEF Coda KEF Coda KEF Coda KEF RDM KEF RDM KEF RBM KEF RBM Linn Kell Linn Kell  | Monitor d Monitor i10  | 60<br>80<br>130   | Ultra-cheap miniature works well in a limited way  More informative than Mini Monitor – but fiercer, too   | 18,27,17.5  | <b>HARRIS</b>                           | 92  | 4  |  | •                                       |       |  | 186   |
| JPW Gold JPW ML51 JPW ML91 JPW Ruby JPW Ruby KEF Coda KEF Coda KEF Coda KEF RDM KEF RDM KEF ROB KEF RO | d Monitor<br>510<br>910  | 80<br>130   | More informative than Mini Monitor — but fiercer, too  |   |   | 86  | 8  |  |   | •     | 1781   | 156   |
| JPW ML51 JPW ML91 JPW Ruby JPW Ruby KEF Coda KEF Coda KEF Coda KEF RDM ( KEF Q65 KEF ROB KEF R | 5 <mark>10</mark><br>910   | 130   |  |   |   | 86  | 8  | 50   |   | •     | 1782   | 156   |
| JPW ML91 JPW Ruby JPW Ruby JPW Ruby KEF Coda KEF Coda KEF COda KEF RDM KEF Q65 KEF RDM KEF Refere Keswick A Linn Kanl Linn Kanl  | 910  | 330   | Lots of good-quality speaker for the price, but not an ideal match for cheap budget components   | 20,34,22  |   | 88  | 5  | 50   | •                                       |       |  | 169   |
| JPW Ruby  JPW Ruby  KEF Coda  KEF Coda  KEF Coda  KEF Coda  KEF Coda  KEF Q15  KEF Coda  KEF RDM  KEF RDM  KEF RDM  KEF REFERE  KEF RDM  KEF REFERE  Linn Kan  Linn Kan  |  |   | Loads of speaker for the money, plenty of headroom and loudness capability, but sounds dull  | 23,104,30   | •                                       | 91  | 4  | 43   | •                                       |       |  | 183   |
| MEF Coda KEF RDM KEF RDM KEF RDM KEF REfere Keswick A Linn Kell Linn Kan Linn Kell  | 010  | 400   | A seriously substantial speaker for the price, and an obvious choice for those who like their music loud   | 22.5,115,40   | •                                       | 91  | 6  | 25   | •                                       | -2-7  | 2031   | 170   |
| KEF Coda KEF RDM KEF RDM KEF RDM KEF RDM KEF REFere Keswick A Linn Kell Linn Kell  | y 1  | 400   | Very pretty but pricey luxury metal-cone miniature has good, if slightly edgy balance  | 19,32,21  |   | 87  | 6  | 55   | •                                       |       | 1572   | 139   |
| KEF Cresta  KEF Coda  KEF Q15  KEF Coda  KEF RDM  KEF REF REF  KEF RDM  KEF ROM  KESwick A  Linn Kan  Linn Kalid  | y 4  | 1,000   | Twin metal-cone main drivers improve the dynamic performance and bass extension, with little sacrifice   | 22,94,26  | •                                       | 88  | 8  |  | •                                       |       | 2132   | 174   |
| KEF Coda  KEF Q15  KEF Coda  KEF RDM ( KEF Q65  KEF RDM  KEF RDM  KEF RDM  KEF RDM  KEF RDM  KEF RDM  Linn Kan  Linn Kan  Linn Kelid   | 1 7  | 129   | Lovely open voice reproduction, but bass could be tauter; build tougher  | 18,30,23  |   | 88  | 6  | 50   |   | •     | 1783   | 156   |
| KEF Q15 KEF Coda KEF RDM ( KEF Q65 KEF RDM KEF Refere Keswick A Linn Kan Linn Keil   | ta 2   | 149   | A good looking/value package but sonically disappointing, and no match for the Q15   | 20.5,37,24  |   | 91  | 4  |  |   | •     |  | 195   |
| KEF Coda<br>KEF RDM (<br>KEF Q65<br>KEF RDM<br>KEF Refere<br>Seswick At<br>Linn Kan<br>Linn Kellid   | the state of the s | 189   | Outstandingly well-balanced, bass is deep but a little vague   | 20,32.5,29  |   | 86  | 6  |  |   |       | 1784   | 156   |
| KEF RDM ( KEF Q65 KEF RDM KEF Refere Keswick A Keswick AL Linn Kan Linn Keilid   |  | 200   | Beautifully balanced and voiced stand-mount, but a potentially tricky amplifier load at high frequencies   |   |   | 90  | 2.5  |  |   | •     | 1705   | 187   |
| KEF Q65 KEF RDM KEF Refere Keswick A Keswick A Linn Kan Linn Keilid  |  | 299   | Uneven budget 3-way floorstander with poor bass definition   |   | •                                       | 89  | 6  |  | •                                       |       | 1785   | 156   |
| KEF RDM KEF Refere Keswick A Keswick AL Linn Kan Linn Keilid   |  | 499   | Cute and tiny, nice midband but lack of bass warmth and weight   | 23,30,24  |   | 88  | 6  |  |   | •     | 1913   | 164   |
| KEF Refere Keswick A Keswick Au Linn Kan Linn Keilid   |  | 799   | Dumpy-looking three-way has loads of bass and a laid-back midband; goes loud but lacks poise and impact  | -   | •                                       | 92  | 2.5  |  | •                                       |       |  | 190<br>189  |
| Keswick Au Keswick Au Linn Kan Linn Keilid   | the second second second second  | 1,500   | Definitely a speaker aimed at long-term satisfaction rather than immediate impressiveness. Nice  | 24,100,27<br>23,103,34  | •                                       | 89  | 4  | 1000   | •                                       |       | 1987   | 167   |
| Keswick Au Linn Kan Linn Keilid  |  | 1,599<br>379  | Classy, large floorstander that has massive headroom and clean mid-to-treble, but limited deep bass  Confident and dynamic sound, if a little crude and shut in  | 21,42,24  |   | 89  | 8  | 20   |   | -     | 1405   | 148   |
| B Linn Kan Linn Keilid   |  | 999   | Good value, lively contender with distinctive styling. Goes loud and deep but could be smoother  | 18-26, 93,28  | •                                       | 90  | 4  |  | •                                       |       | 1977   | 167   |
| 1 Linn Keilid  |  | 295   | Great bass discrimination from size, ensuring a very informative, if slightly shut in experience   | 19,31,19  |   | 86  | 4  | 277  |   | •     | 1577   | 187   |
| Chan Makes   |  | 750   | Stunning timing and coherence, and awesome bass drive  | 20,83,28  | •                                       | 87  | 4  |  |   | •     | 1552   | 138   |
| B Linn Kaber   |  | 2,000   | Dry, bright balance emphasises dynamics and transients, but can sound unforgiving  |   | •                                       | 87  | 4  | 1000000  |   | •     | 1000   | 118   |
|  | ice Auditorium   | 1,500   | Pretty, compact floorstander has wonderful coherence, high sensitivity and fine dynamic integrity  | 21.5,98,29  |   | 91  | 4  | 25   | •                                       |       |  | 180   |
|  |  | 4,000   | Discreet but extremely fine design with external x-over and an affinity to valves  | 21.5,104,27   | •                                       | 89  | 8  | 45   | •                                       |       |  | 196   |
| Magnat Ve  |  | 450   | Tall, dark and a lot of speaker for the money. Beautiful balance, but lacking in subtlety and transparency   | 22,115,29   | •                                       | 89  | 5  |  | •                                       |       |  | 183   |
| Magnat Vir   |  | 1,200   | Slightly crude in some respects but lots of heart, fine scale, decent dynamic coherence and integrity  | 29,113,32   | •                                       | 88  | 4  |  | •                                       | TEST. | 231  | 180   |
| Mission 70   |  | 130   | A lot of speaker for the money. Good bass weight and extension and goes loud with ease   | 18,34,26  |   | 87  | 8  | -  |   | •     | 2257   | 179   |
| Mission 77   |  | 170   | Beautiful stand-mount miniature has a delightfully well balanced and voiced sound, and real wood finish  | 17,31,22  |   | 86  | 7  | 45   |   | •     |  | 187   |
| Mission 77   |  | 199   | A good centre-front match for 77-series, the triple tweeter might be a curiosity, but voicing is very good   | 42,17,21  |   | 91  | 4  | 100000   |   | •     |  | 198   |
| Mission 77   |  | 199   | Neat flush-mount surround speaker has no bass but a smooth midband and nicely restrained treble  | 34,26,12  |   | 92  | 4  |  |   | •     |  | 198   |
| Mission 75   |  | 250   | Fabulous cosmetics and a great midband carry the day, though size will out and bass is inevitably limited  | 17,28,27  |   | 86  | 7  | 45   |   | •     | 2203   | 177   |
| Mission 77   |  | 400   | Beautifully designed slim floorstander could be more neutral but still delivers an all round entertaining sound  | 17.5,88,26  | •                                       | 92  | 4  |  |   | •     |  | 193   |
| Mission 77   |  | 500   | Gorgeous floorstander is an entertaining communicator, despite some balance oddities (bright treble)  A beautifully judged compromise in the act of combining procentation with a decent county.   | 18,95,31  | •                                       | 90  | 4  | 40   | •                                       |       | 2122   | 183   |
| 4.47 1   | 752 Freedom  | 578   | A beautifully judged compromise in the art of combining presentation with a decent sound  Ultra-compact floorstander has a glorious midband and slightly odd bass. Good communication skills   | 20,90,25  | -                                       | 89  | 8  | 45   | 0.5                                     |       | 2123   | 174   |
|  | 782<br>753 Freedom   | 699<br>798  | Ultra-compact floorstander has a giorious midband and slightly odd bass. Good communication skills  Great styling. New, more restrained tweeter reveals fine midband dynamics  |   | •                                       | 86  | 9.5  | -  | 85                                      | •     | 1014   | 199   |
| -  |  |   | Tall but exceptionally elegant floorstander gives fine midband projection; goes loud but limited deep bass   | 21,90,31  | •                                       | 89<br>88  | 4  | 40   | •                                       |       | 1914   | 164   |
| Address of the last of the las | Audio 702PMC   | 700   | A good all-round stand-mount with intimate midband focus   | 22,111,31<br>20,40,25   |   | 88  | 8  | 40<br>30   | •                                       |       | 1981<br>2128   | 167<br>174  |
|  | Audio MA703PMC   | 800   | Lovely but pricey floorstander has up-front, coherent, 'shiny' sound   | 20,40,23  | •                                       | 88  | 8  | 50   | •                                       |       | 1826   | 160   |
|  | echnology Kestrel SE   | 300   | Brighter and drier-sounding than the standard Kestrel (and not the better for it)  | 20,84,19  | •                                       | 84  | 5  | 50   | •                                       |       | 1915   | 164   |
|  | echnology Harrier  | 400   | Very pretty package, good measured performance and even sound. Sensitivity is low, and dynamics limp   | 25,80,23  | •                                       | 86  | 8  | 25   | •                                       |       | 1663   | 152   |
|  | echnology PM15   | 450   | A subtle, understated but very involving example of the 'classic' luxury-finish compact standmount   | 20,41,27  |   | 88  | 5  | 38   |   |       |  | 183   |
|  | echnology Condor   | 1,000   | Lots of clever ideas in a floorstander, which places transparency and smoothness ahead of dynamic drama  |   | •                                       | 85  | 4  | 28   | •                                       |       | 2134   | 174   |
|  | 1 1 5  | 680   | Big speaker has a big but also surprisingly smooth and civilised sound. Fine material value too  | 33,117,30   | •                                       | 89  | 4  | 22   | •                                       |       |  | 190   |
| Naim Intro   | echnology Falcon   | 660   | Great dynamic range and info retrieval, but thin, lacks warmth   | 24,89,27  | •                                       | 89  | 6  | 30   | •                                       |       | 1916   | 164   |
| Naim Cred  | 0  | 1,060   | Involving sound, but rather forward and cold. Good clarity, but some coloration and a lack of richness   | 24,89,30  | •                                       | 88  | 8  | 28   | •                                       |       |  | 180   |
| Naim SBL I   | o<br>do  | 1,970   | Lively and punchy – smoother but more upfront than before  |   | •                                       | 88  | 6  | 25   |   | •     | 1352   | 143   |
| Neat Critiqu   | o<br>do<br>. Passive   | 445   | Contemporary standmount has a clean, crisp sound with lovely natural midband voicing   | 22,32,24  |   | 86  | 6  | 50   |   | •     |  | 183   |
|  | o<br>do<br>. Passive<br>que 2  |   | This elegant package delivers a fine overall sound quality, some might find the top end too insistent  | 20,86,18  | •                                       | 85  | 6  | 23   | •                                       |       | 2211   | -   |
| Neat Elite   | o<br>do<br>Passive<br>que 2<br>stique Mk2  | 575   | A highly entertaining all rounder, has a planar tweeter that sounds sweet, if not particularly smooth  |   | •                                       | 88.5  | 6  | 25   |   |       |  | 177   |
|  | o<br>do<br>Passive<br>que 2<br>stique Mk2  | 1,195   |  | 23,105,40   | -                                       | -   |  |  | -                                       |       |  | 195   |
| B NHT Super  | o do Passive que 2 stique Mk2 e II/Gravitas  | 1,195<br>2,000  | Beautifully presented miniature/subwoofer combo with ribbon tweeter gives smooth, laid-back sound<br>A fine compromise between size and performance, sensitivity and hence loudness capability is modest   | 18.5,29.5,23  | •                                       | 85<br>85  | 8  | 25<br>30   | •                                       |       | 1988   |   |

Loudspeakers

SPECIFICATIONS

SPECIFICATIONS

FROM SENSITIVITY (BUDANCE SPACE SPACE NO WALL NO MEER (BUDANCE (CO)) (BLZ)

FROM SENSITIVITY (BUDANCE (CO)) (BLZ)

FROM SENSITIVITY (BUDANCE (CO)) (BLZ)

FROM SENSITIVITY (BUDANCE (CO)) (BLZ)

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|----|--------------------------------|--------|--|--------------|----------|------|------|---|----------|-------|-----------|---|
|    | PRODUCT                        | (£)    | COMMENTS   | V            | <b>V</b> | V    | Y    | V                                       | V        | V     | - ▼       |   |
| )  | NHT 1.5                        | 400    | $\label{thm:compact} \textbf{This compact standmount sounds much bigger than it has any right to. Good timing and communication skills}$ | 18,42,19-26  |          | 85   | 6    | 40                                      | •        |       |           |   |
| )  | NHT Super Two                  | 550    | Black and shiny compact three-way floorstander has marvellously even balance and good coherence  |              | •        | 87   | 8.5  | -                                       |          | •     |           | 1 |
|    | Opera Prima                    | 495    | Good-looking hardwood enclosure, plus fine mid and treble , but less satisfactory bass   | 19,34,31     |          | 90   | 4    |   | •        |       |           | 1 |
|    |                                | 1,650  | Chunky floorstanding three-way has lovely cabinetwork and lively sound, but limited deep bass  | 24,94,27     | •        | 88   | 8    |   | •        |       | 1989      | 1 |
| •  |                                | 1,200  | A superb example of what an essentially small loudspeaker can do, with bags of brio and enthusiasm                                       | 18,101,28    | •        | 87   | 8    |   | •        |       |           | 1 |
| )  | PMC TB1S                       | 430    | Pro-audio version of TB1, cheaper because of black paint finish  | 20,41,30     |          | 87   | 6    | 40                                      | •        |       | 2207      |   |
| •  | PMC TB1                        | 482    | A classy, laid-back performer that likes going loud and loves the bass guitar  | 20,40,31     |          | 87   | 8    | 45                                      | •        |       | 1830      |   |
| •  | PMC LB1                        | 999    | Still fully competitive eight years after our original review, this genuine compact monitor is now a modern classic                      | 17.5,53,26   |          | 87   | 6.5  | -                                       | •        |       |           |   |
|    |                                | 1,496  | Lovely panel-like transparency, slightly shut-in balance, needs a big room   | 26,79,43     |          | 89   | 6    |   | •        |       |           |   |
| )  | Polk LS50                      | 800    | No enthusiast tweaks here, but powerful and beautiful balance  | 27,83,29     | •        | 89   | 8    |   | •        |       | 1155      |   |
|    | Polk RT16                      | 799    | Bass rich, lively and powerful, but suspect top end; big and not very pretty   | 22,105,39    | •        | 91   | 4    | 100000000000000000000000000000000000000 | •        |       | 1831      |   |
|    | Polk CS 1000p                  | 999    | Monstrously large and heavy centre-front speaker, presumably for those with monstrous intentions   | 87,22,35     |          | 92   | 4    |   | •        |       |           |   |
|    |                                | 1,200  | High sensitivity, but balance has too much midbass boom; mid-top is laid back  | 31,94,37     | •        | 90   | 8    |   | •        |       | 1084      |   |
|    |                                | 1,300  | Tall elegant tower with built-in powered bass 'subwoofer' that needs using with discretion. Bright but engaging                          | 20,110,35    | •        | 91   | 4    | 14515040                                | •        |       |           |   |
|    |                                | 2,700  | For aspirant high-enders looking for seriously good boxes, this speaker should be first port of call                                     | 22,107,25    | •        | 86   | 8    |   | •        |       | 1457      |   |
|    |                                | 1,000  | Pretty if pricey compact floorstander with a beautifully natural and neutral midband, and some bass thump                                | 20,94,28     | •        | 87   | 8    |   | •        |       |           |   |
|    |                                | 1,000  | Attractive pyramidal stand-mount with heavy, laid-back balance but remarkably unboxy sound   | 27,37,36     | •        | 83   | 4    |   | •        |       |           |   |
| )  | Rega Kyte                      | 198    | Has splendid timing and coherence, sounds very explicit and informative  | 19,31,19     |          | 87   | 8    | 50                                      |          | •     |           |   |
| ١. | Rega EL8                       | 298    | Kyte drivers in compact floorstander give more bass but less coherence   | 17,72,20     | •        | 86   | 8    | 55                                      |          | •     |           |   |
| 1  | Rega Jura                      | 450    | Beefy sounding, chunky floorstander sounds very 'direct coupled' to the music, if a touch 'boom'n'tizz'                                  | 22.5,92.5,26 | •        | 90   | 5    | 25                                      | •        |       |           |   |
|    | Rega ELA Mk II                 | 498    | Pretty and smooth, the latest incarnation has a superb midband and excellent communicative skills  | 30,80,20     | •        | 87   | 8    | 40                                      | •        |       | 1578      |   |
|    |                                | 1,040  | Looks and sounds great: balance bright but even, with delightful coherence and timing  | 20,82,30     | •        | 89   | 6    | 40                                      | •        |       | 1083      |   |
|    | Rehdeko RK 115a                | 1,700  | Single-driver system has limited bandwidth and obvious coloration, but wondrous dynamic coherence  | 34,42,27     |          | 95   | 8    | 55                                      |          | •     | 1982      |   |
|    |                                | 1,299  | Innovative metal-box compact with integral port/stand – clean with good timing but very laid-back balance                                | 20,99,24     | •        | 81   | 8    | 22                                      | •        |       | 1983      | _ |
|    | Roksan ROKone                  | 595    | Large stand-mount is musically very communicative if a little coloured   | 21,45,33     |          | 89   | 6    | 30                                      |          |       | 1834      | - |
| -  | Roksan Ojan 3 Black            | 795    | Squat, stylish and black, great bass extension and somewhat uneven balance   | 28,76,46     | •        | 88   | 8    | -                                       | •        | Time  | 1082      | - |
| Ì  | Roksan OJ3X Black              | 995    | Innovative low-line, 2-way floorstander with decoupled tweeter; great bass and fine dynamic range  | 28,79,46     | •        | 84   | 8    |   | •        | 753   | 1979      | - |
| ,  | Royd Minstrel                  | 275    | Not much wellie or loudness but fine coherence and timing; a bit bright  | 18,69,12     |          | 86   | 8    | 30                                      | •        |       | 1167      |   |
|    | Royd Doublet                   | 485    | Great value compact floorstander: lively and very informative, if a little uneven  | 18,93,19     |          | 90   | 4    | 28                                      | •        |       | 1835      |   |
|    | Royd The Sorcerer              | 595    | Extremely musical and communicative speaker that's fun to listen to. Aesthetics could be better, though                                  | 20,31,18     |          | 86   | 8    |   | •        |       |           |   |
|    | Royd Abbot                     | 695    | Dynamic and fine transient qualities are hampered by a rather coloured mid-forward balance   | 20,81,30     | •        | 90   | 8    |   | •        | 98/91 |           | - |
|    | Ruark Epilogue                 | 269    | Beautifully finished miniature with a lively balance and plenty of charm; best suited to smaller rooms                                   | 17,29,23     |          | 87   | 8    |   |          |       |           |   |
| i  | Ruark Sceptre                  | 599    | Traditional' cabinetwork with classy veneer and shiny gilt fixings, hampered by rather wayward sound balance                             | 21,38,31     |          | 87   | 8    |   | •        |       | 2129      |   |
| Ì  | Ruark Talisman II              | 749    | Less ideologically committed than some, strength lies in fine all-round coherence  | 23,84,32     | •        |      | 8    |   | •        |       | 2123      | H |
| i  | Ruark Crusader                 | 1,599  | Elegant luxury three-way with wonderfully even-handed, if rather laid-back balance   | 24,94,31     | •        | 85   | 6    |   | •        |       | 1990      | - |
| i  | Ruark Equinox                  | 1,849  | The primary strength of this speaker is its ability to vanish behind the music   | 25,88,34     |          | 88   | 6    |   | •        |       | 1227      | - |
|    |                                | 7,000  | A big handsome speaker with a big, laid-back, but open sound, rocking bass and loads of headroom   | 30,125,53    | •        | 90   | 4    |   | •        |       | 1221      | H |
| ì  | Sequence 400                   | 329    | Clever hang-on-wall panel is well voiced, though bass isn't too great  | 25,100,7     |          | 86   | 8    | _                                       |          | •     | 1917      |   |
|    |                                | 1,875  | Occasionally wonderful, small, floorstanding omni directional design: bright but coherent and revealing                                  | 35,69,25     |          | 88   | 6    |   | •        |       | 1317      | H |
|    | Silverado Raider               | 695    | Beautifully built audiophile compact: neutral if bright, tough work for amps   | 20,40,25     |          | 83   | 3    |   |          | •     | 1918      | H |
|    | Snell K.5                      | 795    | Classy AV-ready stand mount is very solidly engineered. Sound is neutral but lacks excitement  | 22,46,30     |          | 87   | 6    |   | •        |       | 1310      | H |
|    |                                | 4,500  | Active-bass floorstander with marvellous mid coherence, slightly suspect bass integration.   |              | •        | 91   | 6    | 1000                                    |          | 188   |           | - |
|    |                                | 1,095  | Fine match in balance, coherence, transparency and speed. Intended for use with Cary CAD 2A3SE   | 35.5,19,30   |          | 91   | 8    |   |          |       |           | - |
|    | Sonus Faber Concertino         | 599    | A beautifully neutral loudspeaker in a beautiful Italian suit of clothes. Classy, if quite pricey  | 21,32,29     |          | 87   | 5    | 1000000                                 |          |       |           |   |
|    | South Coast Speakers Lancelot  |        | Pretty compact stand mount has nice ribbon tweeter but sounds a bit soft and lacks dynamic vigour  | 19,36,26     |          | 84   | 8    |   | ·        | -     |           | H |
|    | Spendor 2030                   | 599    | Discreet slimline floorstander with delicately coherent, laid-back sound   | 18,89,27     | -        | 87   | 8    |   | -        |       | 1836      | H |
|    | System Audio 1130              | 499    | Super-slim, super smooth, involving experience, but not ideal if you like your bass deep and loud  | 3,100,21     | -        | 89   | 4    |   |          |       | 1030      | H |
|    | System Audio 1150              | 749    | Pricey but persuasive, sonic subtleties sneak up to confound a dodgy first impression. Super-slim  |              | •        |      | -    | -                                       |          | -     |           | H |
|    | - 11 11                        |        |  | 16,105,26    | _        | -    | 4    | 1                                       |          |       | 2250      | H |
|    | Tannoy Mercury M1              | 120    | Sounds much bigger and expensive than it is. Solid, tuneful bass, wide open soundstage, excellent imaging                                |              |          | 87   | 8    |   | <u> </u> |       | 2259      | H |
|    | Tannoy Mercury M2              | 140    | A fine all-rounder with big box and deep bass for the price; could be sweeter and tighter  | 20.5,38,28   |          | 87   | 8    | 25                                      | -        |       |           | H |
|    | Tannoy R1                      | 200    | Pretty little mini-monitor is smooth, well mannered, and polite to a fault, lacks dynamic expression                                     | 17,30,22     |          | 86   | 4    |   | •        |       |           | L |
|    | Tannoy Saturn S6C              | 200    | A punchy compact stand-mount based on a serious cast-frame, pro-style dual-concentric driver.  | 38,21,29     |          | 89   | 0    | 25                                      |          |       | 2025      | H |
|    | Tannoy Mercury M3              | 230    | Good-looking floorstander; very neutral and evenhanded, with fine midband but weak dynamics and drive                                    |              | -        | 87   | /    | 20                                      | •        |       | 2025      | H |
|    | Tannoy Revolution R2           | 350    | Bargain price real wood floorstander is beautifully voiced and very even-handed, if a tad laid back                                      | 17,94,24     | •        | 90   | 4    | 20                                      | •        |       |           | L |
|    | Tannoy Saturn S6LCR            | 400    | A punchy compact stand-mount based on a serious cast-frame, pro-style dual-concentric driver.  | 21,38,29     | _        | 89   | 6    | 25                                      |          |       |           | H |
|    | Tannoy Saturn S6               | 500    | Fine value vinyl floorstander offers plenty of genuine grunt and real dynamic tension  | 21,89,29     |          | 91   | 4    | 20                                      | •        |       |           |   |
|    | Tannoy Revolution R3           | 550    | Handsome real-wood floorstander does a decent enough job but lacks the evenness of its smaller R2 brother                                |              | •        |      | 8.   | -                                       | •        |       |           | L |
|    | Tannoy D300                    | 999    | Gorgeous-looking compact floorstander. And a fine all-round performer, too   |              | •        |      | 6    |   | •        |       |           | L |
|    | Tannoy D500                    | 1,999  | Plenty of muscle and stereo, but short of poise and delicacy. Hard work for amps   | 31,93,34     | •        | 1000 | 6    |   | •        |       | 1355      |   |
|    | Tannoy Westminster TW          | 6,600  | These awesome horn-loaded speakers are remarkably controlled and impressive  | large        | •        | 99   | 8    |   |          | •     |           | L |
|    | Technics SB-M20                | 200    | Well-balanced with natural perspectives and fine midband coherence, but bass is a bit boxy and uneven                                    | 20,32,23     |          | 70   | 8    |   | •        |       | 1413      | - |
|    | Technics SB-M500               | 450    | This model offers a clean, open sound, offset by midbass, heavy balance and low sensitivity  | 25,78,37     | •        |      | 8    |   | •        |       | 1666      |   |
|    | Triangle Cometes               | 359    | Communicative stand-mount has great midband dynamics, but the very bright top end might be intrusive                                     | 22,40,29     |          | 91   | 4    |   |          | •     |           |   |
|    | Triangle Zephyr II             | 599    | Loads of fun. Dramatic dynamics and righteous timing will give any hi-fi system a wake-up call   | 22,94,29     |          | 91   | 4    | 25                                      | •        |       |           |   |
|    | Totem Model One                | 1,195  | Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size   | 17,31,23     |          | 87   | 4    |   | •        |       |           |   |
|    | Veritas H3                     | 6,000  | Loads of fun with wonderful dynamic and temporal integrity from horn-loaded Lowther drivers  | 30,110,47    |          | 104  | 4    | 50                                      |          | •     |           | L |
|    | Vienna Acoustics Mozart        | 1,500  | Gorgeous slimline floorstander sounds very laid back but very charming and musically literate too  | 17,97,30     | •        | 88   | 7.   |   | •        |       | 199 (199) |   |
|    |                                | 20,000 | Deep and even bass sets new standards for cleanliness and clarity; lovely open midband too   | 23,161,561   | •        | 89   | 4    | S20                                     | •        |       |           | L |
|    | Wharfedale Diamond 7.2         | 140    | A good-hearted, lively and up-front performer that's a little lacking in subtlety and smoothness   | 19,29.5,23   |          | 88   | 4    |   | •        |       |           |   |
|    | W'dale Diamond 7.2 Anniversary |        | Lively and exuberant, but a tad untidy with it; can sound a bit cold and hard  | 19,29.5,24   |          | 88   | 4    |   | •        |       |           |   |
|    | Wharfedale Valdus 400          | 200    | Very loud with a minimum of amplification, but the sound is thick and uneven, with a heavy upper bass                                    | 25,80,26     | •        | -    | 8    |   | •        |       | 1414      |   |
|    | Wharfedale Valdus 500          | 300    | These rock boxes can move plenty of air, albeit not as subtly as alternatives  | 25,108,26.5  |          | 91   | 1    | 40                                      | 0        |       | 1758      | 3 |
|    | Zingali Overture 2S            | 1,975  | Gorgeous, pricey, imposing stand-mount has a horn tweeter of great delicacy. Impressively weighty  | 30,57,38     |          | 90   | {    | 25                                      | •        |       |           |   |
|    | SUBWOOFERS                     |        |  |              |          |      |      |   |          |       |           |   |
|    | Acoustic Energy AE108S         | 299    | Lots of loud subwoofer for your money, though ultimately more film than music oriented   | 50,42,43     |          |      |      | 20                                      |          | •     | 2247      | 7 |
|    | B&W ASW1000                    | 499    | (Active) Very competently engineered all round, and goes (unnecessarily) very loud   | 54,47,48     |          | Α    |      | 20                                      |          | •     | 2248      | 3 |
|    | JB&W SW1000                    | 499    | Bulky heavyweight is a high quality item, able to generate more bass output than music is likely to nee                                  | d 54,47,50   | •        | Α    |      | A20                                     | •        |       |           |   |
|    | JPW SW60                       | 349    | A real heavyweight, sounds clean and transparent, if perhaps a little understated. Usefully flexible                                     | 55,47,39     |          |      |      | 20                                      |          | •     | 2249      | ) |
|    |                                |        | (Active) Commendably discreet with good sense of timing but limited extension  |              |          | A    | 1000 | 45                                      | -        |       | 1736      | • |

#### SPECIFICATIONS Loudspeakers SENSITIVITY (db/W) SIZE WXHXD (CM) FLOORSTANDER IMPEDANCE (Q) FACTSBACK NO. ISSUE NUMBER BASS FROM (HZ) OANCE (S) (HZ) O M&K MX70 (Active) Justifies cost and belies its diminutive size, with an agility that makes sense of the toughest material 25.5,46,35 25 2250 179 Ugly if very effective at supplying very low bass, but filter could do with more flexibility higher up 56.30.31 <20 198 Mission 7AS2 399 REL Q50 375 (Active) Genuinely deep, clean bass from an attractively compact and cost-effective package 40,41,42 20 2251 179 O Soliloquy S10 1,050 (Active) Pretty subwoofer, cosmetically matching SM 2A3 speakers, pricey and mid-bass a bit strong 51,30.5,46 A 25 196



#### **Stands & Supports**

Hi-fi supports are more important than you might imagine — they can have very unsubtle effects on the sound of your system! There are two kinds of support: those for equipment and those (stands) for loudspeakers. Equipment supports keep vibrations and resonances from affecting electronic components, while speaker stands hold enclosures stock-still and ensure they are at the correct height for your ears. Equipment supports may be rigid affairs fabricated from steel or more exotic materials; or they may have a form of suspension. Speaker stands come in a variety of sizes and styles to suit different models, and vary between open-frame and solid-pillar types. Always check with speaker and electronics manufacturers to see which supports they recommend.

#### KEY TO SPECIFICATIONS

- HEIGHT (cm): How tall is your support? ● TOP PLATE SIZE (cm): Dimensions of top
- surface on stand or equipment support. • FILLABLE: Some speaker stands can be massloaded with sand or lead-shot to improve sound.
- WELDED: The better stands and supports are welded together rather than just bolted.
- NUMBER OF SHELVES: The number of tiers equipment rack or support.
- SHELF TYPE: The material from which shelves

are made. Wood generally means Medium Density Fibreboard (MDF)

● FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback section of our Archive page.

● ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

**BEST BUY** 

RECOMMENDED

EDITOR'S CHOICE

# Stands & Supports

TOP PLATE SIZE WELDED SHELF TYPE NUMBER FILLABLE WELDED

| PRODUCT                                   | (E)   | COMMENTS   | V  |           | <b>V</b>          | 7                                       |   | V    |   |
|---|-------|--|--|-----------|-------------------|---|---|------|---|
| EQUIPMENT SUPPORTS                        |       |  |  |           |                   |   |   |      |   |
| Aavik Furniture A4                        | 350   | Good sound and stylish Scandinavian looks at an affordable price   | 80.5   | 47        |                   | 4                                       | Wood                                    |      |   |
| Alphason GR 17/17-AS                      | 275   | Great looks but sound can be bettered for the money  | 36   | 60,39     |                   | 4                                       | Glass                                   |      | Γ |
| Apollo Soprano                            | 275   | Uninspiring looks and sonic performance that can be beaten at this price   | 68.5   | 45.5      |                   | 4                                       | Glass                                   |      | Ī |
| Atacama Europa                            | 240   | Stylish, expandable modular design with agreeable full-bodied sound – great value                                  | 67   | 48.6      |                   | 4                                       | Wood                                    |      | Ī |
| Audiophile Furniture Base                 | 615   | Price is justified by its earth-shattering sonic abilities – a worthy upgrade                                      | 82   | 43        |                   | 4                                       | MDF                                     |      | Ī |
| Avid Isoschelf                            | 1,100 | An enthusiasts equipment support stand free from coloration if a little fiddly to set up                           | 87.5   | 48        |                   | 5                                       | MDF                                     |      | Ī |
| Elemental Isotube x 4/Ref                 | 1,199 | Blockbusting size and build. Super sound quality   | 92   | 45,49     | •                 | 4                                       | Marb                                    |      | İ |
| Elemental Audio Isotube X4                | 849   | A hefty stand that demonstrates just how much difference a good support can make                                   | 90   | 49        | •                 | 15045                                   | Glass                                   |      | İ |
| Fi-Rax R4                                 | 399   | Lively, exuberant sound, slightly weak bass  | 30   |           |                   | 5                                       | Glass                                   | 1633 | İ |
|   | 404   | Two-shelf stand and isolation platform combo in tubular steel – made a spectacular impression on audition          | 70   | 52.34     |                   | -                                       | Glass                                   | 1952 | İ |
| Frameworks H500/H175<br>Ixos Deadrock 704 | 250   | Looks unassuming but sound is full and inviting  | 70   | 46,39     |                   | 4                                       | Resin                                   | 1004 | i |
|   |       |  | 56   | 49,39     |                   | - Links                                 | Glass                                   |      | İ |
| Mana Acoustics Ref. Table                 | 350   | King of its type: angle iron, chipboard and glass combine to make a significant difference to sound quality        | 91   | 49, 39    |                   | -                                       | Glass                                   | 1633 | į |
| Mana 5 Tier Sound Table                   | 600   | Infinitely upgradeable. Persuasive and thrilling glass and angle-iron design that adds speed and bandwidth         |  |           |                   | 4                                       | Glass                                   | 1953 | İ |
| Optimum Int 2000 OPT490                   | 299   | 25kg stand with shelves between variable-height tubular uprights. Sounds smooth and relaxed with sturdy bass       | 50   | 60,40     |                   | -                                       | 100000000000000000000000000000000000000 | 1955 | į |
| Optimum Int 2000 OPT660                   | 349   | Glitzy style isn't reflected in sound, which is wholesome  | 82   | 60,52     |                   | 5                                       | Glass                                   |      |   |
| Projekt Furniture A4                      | 215   | An elegant support stand that blends in to any home environment with a laid-back sound                             | 56   | 48        |                   | 4                                       | Wood                                    | 1077 | į |
| Quadraspire Q4                            | 250   | Easy to live with, tonally neutral   | 54   | 40,49     |                   | 4                                       | MDF                                     | 1633 |   |
| Sound Organisation Z560                   | 160   | Welded and bolted members give structural integrity. While performance is not up with the best, it's great value   | 90   | 46,36     |                   | 1000                                    | Wood                                    | 1954 | į |
| Sound Organisation Z545                   | 160   | Budget price and great looks make this a great value stand   | 73   | 46        |                   | 000000000000000000000000000000000000000 | Glass                                   |      |   |
| Soundstyle X100                           | 230   | Looks lovely, sounds lively but slightly bright  | 64   | 49,28     |                   | 002.012                                 | Glass                                   |      |   |
| Soundstyle Radius SR100                   | 280   | Stylish looks and a smooth sound   | 63.5   | 49.5      |                   | 2000                                    | Glass                                   |      |   |
| Soundstyle Select 6105                    | 290   | Respectable sonics: structurally solid and smart   | 78   | 43,36     |                   | 5                                       | Glass                                   | 1633 | İ |
| Soundstyle Finewoods W105                 | 320   | Veneered shelves clamped between tubular uprights. Delivers with classical material                                | 82   | 48,27     |                   | 4                                       | Wood                                    | 1955 |   |
| Stands Unique Sound Tower                 | 289   | Wooden uprights combine with glass shelves to provide a fresh, forward sound, but bass could be quicker            | 81   | 72,42     |                   | 5                                       | Glass                                   | 1633 | ĺ |
| Standesign Design 4                       | 190   | An all-in-one support at a budget price with good sonic performance  | 88.5   | 50.8      |                   | 4                                       | Glass                                   |      | į |
| Target B5                                 | 175   | Free of colorations, fine grip and good value  | 81   | 49,36     |                   | 5                                       | Wood                                    | 1633 | i |
| Townshend Seismic Stand                   | 1,245 | It's big, it wobbles and it's pricey. But this is the ultimate equipment support                                   | 72   | 58,45     |                   | 3                                       | Wood                                    |      | İ |
| Wilson benesch Asside                     | 590   | Sounds even better than it looks. And it looks wonderful   | 72   | 37,50     |                   | 4                                       | Wood                                    |      | İ |
| SPEAKER STANDS                            |       |  |  |           |                   |   |   |      | İ |
| Alphason NC I                             | 45    | Filled single-column design without threaded spike holes, that's appropriate for non-critical applications         | 40-60  | 16,16     | •                 | 287                                     | 7777                                    | 1373 | ı |
| Alphason NCII                             | 85    | Tall, slim and elegant, though sound and value are unexceptional   |  | 17,17     | -                 |   |   |      | İ |
| Alphason HDS                              | 85    | A reasonable stand with a smooth but rather bland sound balance. Good finish options                               | A residence in the lateral party   | 15.5,15.5 | 000000            |   |   |      | İ |
| Alphason Titan                            | 125   | Excels in the midband and allows voices to come across in a detailed and expressive fashion                        | 40-60  | -         |                   |   |   | 1373 | İ |
| Apollo Olympus                            | 75    | A popular stand and a decent performer, but unremarkable by today's standards                                      |  | 15,12.5   | 5000000<br>500000 | 100                                     |   | N    | ĺ |
| Apollo AZ6                                | 80    | Fine engineering value, but sound is unexceptional and top-plate small   | 66   | 15,13     | 1000              |   |   |      | - |
| Atacama BD21                              | 55    | Good-looking and good value, but doesn't match the SE24's sound quality  | 56   | 15,17     | •                 |   |   |      | ĺ |
| Atacama R724                              | 150   | Atacama uses its market strength to deliver a superbly appointed product at a very reasonable price                | 60   | 15,17     |                   |   |   |      | İ |
| Atacama SE24                              | 70    | Stands out from the budget crowd because of the consistency and overall quality of its performance                 | 61   | 19.5,17   |                   |   |   | 1373 | ł |
| Custom Design R/S 300                     | 70    |  | 40.6-60.   | 9 15,15   |                   |   |   | 1373 | ł |
| Elemental Isotube SZse                    | 599   | Stands of distinction, able to free the speaker's sound from its box in a way budget stands simply can't           | 61   | 23,27     | •                 |   |   |      | ł |
| JPW HS1                                   |       | A purposeful stand, a touch dry-sounding but particularly strong with bass. Great for rock and dance music         |  |           |                   |   |   |      | ŀ |
| Mana Soundframes                          | 120   |  | 61<br>5  | 19,21     |                   | 200                                     |   | 1777 | ŀ |
|   | 125   | For use under floorstanders and equipment racks, these make music effortless and natural. Can be stacked           |  | 10.22     |                   |   |   | 1373 | ŀ |
| Partington A-4                            | 119   | An odd-ball stand with a sound that's sheer class. More open and focused than almost anything below £150           | 50-100   | 19,22     |                   |   |   |      |   |
| RMS/Stands Unique Vivus                   | 349   | Pricey carbon fibres give ultra-clean sound with exceptional voices  | 50   | N/A       | 1000              | 1000                                    |   |      | ŀ |
| Russ Andrews Torlyte                      | 599   | Subtle and musical-sounding stands, though a touch more 'pizazz' is need for Recommendation at this price          |  | 33.5,24   |                   | Care                                    |   |      | ŀ |
| Sound Organisation Z524                   | 69    | A coherent-sounding stand with particular strengths in the midband, though quality drops at the frequency extremes | A STATE OF THE PARTY OF THE PAR | 16,17     |                   |   |   |      | ļ |
| Stands Unique HP                          | 220   | Real wood disguises high-performance tuned technology  | 59   | 22,23     |                   |   |   |      |   |

Stands & Supports

SPECIFICATION TOP PLATE SIZE (CM) NUMBER OF SHELVES FACTSBACK NO. SHELF TYPE ISSUE NUMBER FILLABLE WELDED

| 0 | Target TR60 | 68 Lively, | dynamic midrange and detailed treble from a less-than-audiophile-oriente   | d, twin-column design  |
|---|-------------|------------|--|--|
|   |             | A          | Tonearms   | K E Y  ● EFFECTIVE MASS: The compliance. Generally high  |
|   |             |            | ess expensive turntables are usually supplied with a matching tonearm (and often a 'starter' cartridge, too). However, hard-core virryl fans should invest in a more expensive separate motor unit with specialist tone-arm — the only way to make the most of virryl LPs. It is essential to achieve operational synergy between such components, so this is one area of hi-fi where the skills | for low compliance cartrid  PARALLEL TRACKIN the cartridge to track the c  PIVOTED: Arms which describe an arc as they tra  UNI-PIVOT: Pivoted a |

Target R1

ess expensive turntables are usually supplied with a matching tonearm (and often a 'starter' cartridge, too). However, hard-core vinyl fans should invest in a more expensive separate motor unit with specialist tone-arm — the only way to make the most of vinyl LPs. It is essential to achieve operational synergy between such components, so this is one area of hi-fi where the skills of a knowledgeable dealer are invaluable. The quality of a tonearm's construction and design affect sound quality significantly. There are three basic arm designs listed in the key, and each has strengths, but pivoted designs are the most popular, being usually the most practical and affordable.

280 Truly high-mass four-pillar design with superb weight and speed, giving music delicious attack

RECOMMENDED

15.15

53 15.21

60

● EFFECTIVE MASS: This relates to cartridge compliance. Generally high mass arms are suitable for low compliance cartridges and vice versa.

- PARALLEL TRACKING: An arm which allows. the cartridge to track the disc in a linear fashion. PIVOTED: Arms which allow the cartridge to describe an arc as they traverse the record.
- UNI-PIVOT: Pivoted arms with a earing that allows movement in two planes
- EFFECTIVE LENGTH (CM): Length of the

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- ADJUSTABLE HEIGHT: Important for accurate cartridge set-un
- FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback section of our Archive page

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**EDITOR'S** 

CHOICE

• ISSUE NUMBER: The issue of Hi-Fi Choice in which an original review appeared.

**Tonearms** 

EFFECTIVE ENCIPLOR ENCIP PARALLEI TRACKING EFFECTIVE MASS FACTSBACK NO. ISSUE NUMBER UNI-PIVOT PIVOTED Kuzma Stogi Ref 1.250 Large, solid and well-made arm, gives exceptionally clear sound with just a hint of brightness High Linn Ekos a 1.500 Superb, state-of-the-art design which builds significantly on predecessor's strengths • 67 0 Moth/RB250 The ultimate budget arm? Refined, sweet, detailed and natural 0 Rega RB300 174 Despite its modest price it sets exceptional standards and could be used on many high-end turntables Roksan Tabriz Basic a 350 Targeted at the Xerxes, this is a good alternative to the Rega arm in many cases – a touch bright though Low 91 240 SME Series IV Superb engineering and finish with a finely balanced sound, impressive stereo focus and low coloration 0 983 Low 233 . 60 SME Series V O 1461 Excellent in all respects, this arm arguably sets the standards for pivoted arms, regardless of price 60



#### **Tuners**

TV has stolen radio's status as the foremost broadcast entertainment medium, but with its Radio Four plays and Radio Three music, the BBC still makes a potent case for audiophile reception equipment. For how much longer, under the cost-conscious Birtist régime, remains to be seen. Another new imponderable is the arrival of digital radio broadcasting, though reception apparatus is currently non-existent outside of the in-car market. These days tuners play second fiddle to hi-fi sources like CD, but in many ways they are a greater engineering challenge than digital equipment, and thus higher pricetags clearly equate to superior performance. High-quality, roof-mounted antennae are essential for audiophile listening, so factor them into your budget.

#### SPECIFICATIONS • REMOTE CONTROL: Infra-

● WAVEBANDS: FM - (VHF), M-MWI-IW • PRESETS: Num er of station

frequencies that can be stored. ● RDS: (Radio Data System) was originally designed for in-car applications. RDS tuners can identify and display the name of the radio station eing received, traffic news and other information about broadcast

 SIGNAL STRENGTH METER: Indicates strength of signal from aerial - useful for aligning your 'twig' during

red control handset supplied.

• ROTARY TUNING KNOB: Experience has shown that this analogue throwback is ergonomically far superior to the  FACTSBACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info see the Factsback section of our

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## **Tuners**

SIG STRENGTH MING KNOB REMOTE CONTROL FACTSBACK NO. ISSUE NUMBER PRESETS ROS

| STA |                            |       |  |        | -  | 100      |   | 71 | - | -    | -   |
|-----|----------------------------|-------|--|--------|----|----------|---|----|---|------|-----|
| · 2 | PRODUCT                    | (£)   | COMMENTS   | V      | V  | <b>V</b> | V | V  | V | •    | V   |
| 0   | AMC T7                     | 130   | Performance adequate but price is sharp, especially with remote control. Some hum                              | FM, M  | 30 |          | • |    |   | 1945 | 166 |
| 0   | Arcam Alpha 7              | 230   | Indifferent RF performance but a touch of audiophile sound quality with clean, strong signals                  | FM,M,L | 24 |          |   |    |   | 1946 | 166 |
| 0   | Arcam Alpha 10 DRT         | 800   | The first DAB tuner and arguably still the best, but the system's still not perfect                            | DAB    | 7  | •        | • | •  | • |      | 199 |
| 0   | Cambridge T500             | 180   | Very capable tuner suited to good and less good reception conditions   | FM,M,L | 64 |          |   | •  | • |      | 193 |
| 0   | Creek T43                  | 399   | Quality UK-made tuner offering classy sound in all areas at a very fair price                                  | FM,M,L | 64 |          | • |    | • |      | 193 |
| 1   | Cymbol C-DAB 1             | 1,000 | The first 'high-end' DAB tuner, though format is the ultimate limitation. Gorgeous finish                      | DAB    | 8  | •        | • | •  |   |      | 199 |
| 0   | Denon TU-260L II           | 130   | The return of the all-time favourite, now enhanced with RDS and sounding as fine as ever                       | FM,M,L | 40 | •        |   |    | • |      | 193 |
| 0   | Denon TU-425RD             | 200   | A fine all-rounder with advanced RDS, good RF performance and decent sound. Remote extra                       | FM, M  | 40 | •        |   |    |   | 1947 | 166 |
| 0   | Denon TU-1500RD            | 250   | A well-balanced and clean sound with good bass and treble extension  | FM,M   | 40 | •        |   |    | • |      | 184 |
|     | Magnum Dynalab FT11        | 499   | All-analogue tuner: receives weak or tightly packed stations but loses out on noise and sonic neutrality       | FM     | 3  |          |   | •  | • |      | 184 |
| 0   | Harman/Kardon TU950        | 200   | Bulky but effective, delivering fine RF performance and good sound for the price                               | FM,M,L | 30 | •        |   |    | • | 1948 | 166 |
| 0   | Linn Kremlin               | 2,600 | Controversially good sound at a very high price  | FM     | 80 |          | • | •  |   | 1254 | 142 |
| 0   | Marantz ST-48              | 120   | A classic budget model which manages a performance only just behind much more expensive models                 | FM,M   | 60 | •        |   |    |   |      | 184 |
|     | Musical Fidelity E50       | 300   | Sounds involving if coloured and with a subjectively larger-than-life presentation                             | FM     | 20 |          |   |    |   | 1810 | 157 |
| 0   | Myryad T-30                | 400   | Attractive product that produces attractive sounds too: capable of very musical performance with a good aerial | FM     | 29 |          | • | •  |   |      | 193 |
| 1   | Myryad T-10                | 530   | A very smart unit which works well and offers good rhythmic drive and vitality, albeit at a price              | FM     | 20 |          |   | •  | • |      | 184 |
| 1   | NAD C440                   | 200   | Rather polite sound, a little vague at times, that seldom offends but never excites                            | FM,M   | 30 | •        |   |    |   |      | 193 |
| 0   | Naim NAT01                 | 1,730 | There may be better sounding tuners in the world, but we have yet to hear one                                  | FM     |    |          |   |    |   | 1254 | 142 |
| 1   | Pioneer F-504RDS           | 250   | Cable-friendly with advanced RDS and excellent RF performance; slightly disappointing sound                    | FM,M   | 40 | •        |   | •  | • | 1949 | 166 |
| 0   | Pioneer F-504RDS Precision | 300   | Lots of features, plus a sound that's low on noise and high on communication, adds up to a good value package  | FM,M   | 40 |          |   | •  | • |      | 184 |
|     | Roksan Caspian             | 595   | Neat facia with great ergonomics, but sound is not really any better than models at half the price             | FM     | 50 |          | • | •  | • |      | 184 |
| 1   | Sony ST-SE500              | 140   | A lot of features for the money, but sound lacks detail and has some coloration                                | FM,M,L | 30 | •        |   | •  | • |      | 193 |
| 1   | Rotel RT-935AX             | 160   | Good ergonomics and sound quality at a realistic price, but limited features and RF selectivity                | FM,M   | 20 |          |   |    |   | 1950 | 166 |
|     | Sony ST-SA3ES              | 250   | Clean, lean presentation but needs a quality aerial to perform at its best                                     | FM,M,L | 30 | •        |   | •  | • | 1810 | 157 |

March 2000 HI-FI CHOICE 117

#### SIG STRENGTH METER ROT. TUNING KNOB REMOTE CONTROL FACTSBACK NO. uners WAVEBANDS PRESETS Sony STS-B920S 0 190 A little hiss and image compression don't detract from the clean performance of this feature-packed tuner EM MI 19/ 142 Technics ST-GT3501 Decent RF performance is offset by sound quality more typical of a mini/midi system FM.M.L Technics ST-GT1000 Handy tuner that combines DAB, FM and AM in one unit and substantially lowers the price bar for DAB entry DAB FM M 97 199 500 a Thorens TRT2000 499 Not exactly neutral sounding, but nonetheless makes listening fun FM.M 59 1810 157

#### **Turntables**

5 pecialist turntables are at the heart of high-fidelity sound. CD players may offer ultra-low noise and a flat frequency response, but they can't match the dynamics and superlative rhythmical timing taken for granted by serious tumtable users. Less expensive tumtables are usually supplied with a matching tonearm (and often a 'starter' cartridge, too). Still better quality is found at higher prices among the separate motor units and tonearms. Because turntables are mechanical devices, designed to retrieve micron-small modulations engraved into vinyl, engineering quality is of paramount importance. This is also the reason why turntables cost as much as they do, and require the finest equipment support systems.

#### SPECIFICATIONS

- MANUAL: You do all the work
- AUTO: The record player does all the work • SEMI-AUTO: You put the needle on, the
- ntable lifts it off at the end of the record. SPEEDS: In RPM to correspond with long-
- playing records or seven/12-inch singles.
- SUSPENDED SUBCHASSIS: Sprung suspension to minimise structural interference.
- EXTERNAL PSU: Outboard power supply:
- generally indicative of higher-quality performance ● SUPPLIED WITH ARM: Many turntables do
- not come with a tonearm fitted, but if this categor is checked, the deck is already thus equipped. SUPPLIED WITH CARTRIDGE: If a turntable
- FACTSRACK REFERENCE: The Factsback Reference number permits direct access to our faxed review reprint service. For full info, see the Factsback section of our Archive page.
- ISSUE NUMBER: The issue of Hi-Fi Choice in

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### **Turntables**

SUPPLIED WITH ACTS BACK NO.
EXTERNAL PSU WITH ARM CART. SUSP SUBCHASSIS SEMI-AUTO AUTO Extremely capable design with no apparent shortcomings, don't sell your vinyl 'til you've heard it on this 3.990 Opulent beast tested with Souther TQ-1 arm. Tends to gloss over detail, but can sound bold 33/45 1328 Clearaudio Reference DNM Rota 2 33/45 144 Tonally slightly bleached, but extracts detail like few others. Works well on its own table 103 33/45 0 Dual 505-4 UK Consistent sounding and well isolated turntable. It is slightly lacking in oomph 91 (Tested with Stogi Reference) Solid oak plinth; sound is very clear, detailed and extended 33/45 Kuzma Stabi/PS a 103 Trails the full LP12 significantly, but pace, rhythm, timing etc still top rank 33 Linn LP12 Basik a 33/45 91 Linn LP12 Lingo 1.750 The classic reference is improved by the Lingo, but charming character remains 33/45 55 Sweet and natural-sounding player, well matched to Rega RB300 arm Michell Gyrodec 0 190 A stunningly desirable combination of looks, solidity and sound make this a tempting turntable 33/45 Michell Gyro SE E A Superb turntable, able to mix it with the best at virtually any price Michell Orbe 'SF Rather coarse-sounding deck that requires decent isolation and comes with a Rega RB300 arm 33/45 1907 164 Moth Kanoot No frills, just a first-rate, outstandingly natural-sounding deck that will last forever 750 A turntable that looks unlike any other, with rare ability too. Quirky, but sound is immensely likeable 33/45 192 Pink Triangle Tarantella II a Remarkably effective at the price, with decent timing and a generally well defined sound 300 0 192 Flexible facilities and competitive package, but performance of turntable alone is behind the best 33/45 Pro-iect Perspective Don't think of this as a deck with a good arm, but as a scaled-down Oracle Delphi – it's that good 33/45 138 Pro-ject 6/Sumiko A remarkable product at the price, surprisingly articulate and confident Rega Planar 2 214 164 Sounds musical in a balanced manner, needs decent isolation and suffers a little pitch instability 33/45 1907 0 Rega Planar 3 274 Supplied set-up and ready-tuned, this unconventional deck is packed with mid-band detail 600 0 33/45 159 Roksan Radius 3/Tabriz zi 890 Elegant-looking turntable with a tidy, ordered sound. Bright and breezy if a shade lightweight 0 SME Model 10A Elegant and extremely capable design with Series V/309 hybrid arm, superbly built E SMF Model 2024 4 863 Beautifully built, extremely neutral damped and suspended deck with superb sound. Inc V arm Thorens TD166 VI/UK/RB Refined, solid sound with well-focused imagery; suitable for use with good MM/MC budget cartridges Thorens TD2001 700 Balances convenience and sound well, but deck lacks detail and bass could be better controlled 33/45 159

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Wilson benesch The Circle

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33/45

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TIX

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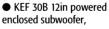




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### JIMMY HUGHES

# Given Jimmy's Grandmaster of the Tweak status, you'd be forgiven for thinking he'd been trying out *kitchen* Sinks...

ast month I posed some searching questions about hi-fi systems and the way they reproduce music. Is listening a comfortable experience? Do you simply hear music, or are you critically aware of your hi-fi system struggling to recreate a believable sound? Is it a relief when you switch the system off, or is the result so pleasurable you never want it to end?

Because the enjoyment of music is a subjective, emotional thing, it can be difficult to isolate exactly what makes one system sound informative and involving, and another sterile and boring. It's obvious when things sound right, but not so obvious why. Some people don't want to know why, and don't really care.

Yet it's important to find out, if only because most of us assemble systems by cherry-picking what we think (or hope) are the best components from different manufacturers. Get the right mix and you'll be

"Overall, the music sounded vivid but natural... just like the band were there singing in front of you. Well, almost."

rewarded with sound that's greater than the sum of the parts. Get it wrong, and the result will disappoint – no matter how much you spend. It's therefore vital to make the right choices. And that means asking the right questions...

A good hi-fi system must be capable of extremes; extremes of loud and soft, high and low. At the same time these extremes must be reproduced comfortably. It should seem as though the system can cope with a the music thrown at it. A really good system gives the subjective impression that voices and instruments are individuals; related yet independent, each in its own space.

The specific timbres of instruments and voices, coupled with subtle dynamic inflections, create a unique individuality that gives the performance character and makes

the music sound more interesting and eventful. Actually, you're simply hearing more of what's there; the detail and delicate nuances, and the broad brush strokes.

So how do you get your system to work? Is it down to the cost and quality of individual components? Is it getting a happy mix of components that's right for your taste and suits your listening room? Or is it more to do with how things are installed? Actually,

it's all three, plus a slice of luck on the side.

Fortunately, for those

wanting instant success, there's something that really makes

Man (from the recent Yellow Submarine CD reissue), the combination of refinement, immediacy, clarity and subtle detail, was quite stunning.

This track is closely recorded, with forward balances and limited dynamic range. Stereo tends to be left/centre/right, with voices very 'present' in the mix. Yet it was possible to hear backing instruments and voices clearly at all times – there was no crowding-up. Overall, the music sounded vivid but natural and very comfortable – just like the band were there singing in front of you. Well, almost...

At the same time, although the sonics were impressive in hi-fi terms, the quality of sound never drew attention away from the music. The sound was excellent, but only as a vehicle for the music; not as an end in itself. My thoughts were how great the song was, and how well sung and played – not how clean the treble sounded, or how tight the bass was. Taking the speakers off the Sinks, the music still seemed pretty good. But something was missing.

#### THAT SINKING FEELING

There was now far more tendency for loud to dominate quiet, and overall things weren't quite so effortless and comfortable

for example, the bass line now seemed a
bit heavy and obtrusive, while John
Lennon's voice was a touch hard and
tonally coarse. Also – and this is highly
significant – it now seemed as though
the volume level was set slightly too
high; the music sounded 'loud' in a busy
slightly aggressive forward sense.

Curiously, my split-second reaction, after taking the speakers off the Sinks and putting them back on the floor, was that the sound had actually improved – superficially, things seemed slightly sharper and more crisply focused. However, within five or ten seconds it was obvious that the effortless clarity and ease of reproduction previously noticeable had all but evaporated. Whereas before, with the Sinks, it was difficult to 'hear' the system doing it's job, now it was all too obvious...

Maybe Seismic Sinks under speakers are no panacea, but I'm willing to bet my shirt they'll make any system more comfortable to listen to. The difference isn't subtle, but you're more likely to appreciate the significance of the improvement after an evening spent listening than a quick A/B comparison. I'm now wondering if Mr T can make Sinks big enough for my Impulse H-1s. If he does, you'll be the first to know...

difference to the very things just mentioned. Step forward Townshend Audio's Seismic Sink for loudspeakers. These are support platforms that isolate the speakers from the floor. And they work.

I'd already tried a couple of Seismic Sinks under my two REL subs with excellent results. But putting Sinks under a friend's full-range loudspeakers proved even more rewarding. The sound wasn't bad before, but with Sinks in place the music was clearly more natural and comfortable, with greater clarity and separation.

The improvement was noticeable on every CD we tried, transforming what was already a good system into one that made all kinds of music a pleasure to listen to. Playing the classic Beatles song *Nowhere* 

#### HIGHLIGHTS OF NEXT MONTH'S ISSUE ...

#### **BUDGET SPEAKERS TESTED**

The search is on to find the best budget speaker for under £500. Contenders include: Mission, B&W, Eltax, Tannoy, Acoustic Energy, Heybrook and ALR Jordan. The winner of the battle will be revealed next month.

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